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OM nucleic - nucleic search, using sw model

Run on: October 2, 2003, 15:45:58 ; Search time 3 seconds
(without alignments)
1.084 Million cell updates/sec

Title: us-09-676-436-3
Perfect score: 20
Sequence: 1 agggattcagggttcacg 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 7024 seqs, 81329 residues

Total number of hits satisfying chosen parameters: 14040

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 32 summaries

Database : rnpb.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
C 1	20	100.0	20	1	US-10-371-474-12
C 2	13	65.0	20	1	US-10-371-474-64
C 3	12.8	64.0	19	1	US-09-953-562-3
C 4	12.4	62.0	24	1	US-09-953-562-25
C 5	12.4	62.0	14	1	US-08-591-486B-72
C 6	11.2	56.0	24	1	US-09-953-562-24
C 7	10	50.0	20	1	US-10-371-474-61
C 8	9	45.0	29	1	US-09-953-562-1
C 9	8.8	44.0	14	1	US-08-591-486B-68
C 10	8.8	44.0	18	1	US-08-591-486B-67
C 11	8.6	43.0	37	1	US-09-955-518-11
C 12	8.4	42.0	10	1	US-09-953-562-26
C 13	8.4	42.0	10	1	US-09-989-994-1270
C 14	8.4	42.0	10	1	US-09-989-994-1275
C 15	8.4	42.0	10	1	US-09-989-994-1337
C 16	8.4	42.0	10	1	US-09-990-186-1270
C 17	8.4	42.0	10	1	US-09-990-186-1275
C 18	8.4	42.0	10	1	US-09-990-186-1337
C 19	8.4	42.0	10	1	US-10-330-627-435
C 20	8.4	42.0	10	1	US-10-330-627-1496
C 21	8.4	42.0	10	1	US-10-330-627-1546
C 22	8.4	42.0	10	1	US-09-989-789-1270
C 23	8.4	42.0	10	1	US-09-989-789-1275
C 24	8.4	42.0	10	1	US-09-989-789-1337
C 25	8.2	41.0	30	1	US-08-591-486B-43
C 26	8	40.0	10	1	US-10-330-627-588
C 27	8	40.0	10	1	US-10-033-145-524
C 28	8	40.0	10	1	US-10-033-145-765
C 29	8	40.0	10	1	US-10-033-145-1337
C 30	8	40.0	20	1	US-10-371-474-17
C 31	7.8	39.0	16	1	US-08-591-486B-163
C 32	7.4	37.0	9	1	US-09-955-518-18

ALIGNMENTS

RESULT 1
US-10-371-474-12/c
; Sequence 12, Application US/10371474
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: William Gaarde
; APPLICANT: Brett P. Monia
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEKK4 EXPRESSION
; FILE REFERENCE: RTS-0169
; CURRENT APPLICATION NUMBER: US/10/371,474
; PRIOR FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US/09/676,436
; PRIOR FILING DATE: 2000-09-29
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-371-474-12

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6e-05;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3314 AGGATTCAGGGTTCACG 3333
|||||
DB 20 AGGATTCAGGGTTCACG 1

RESULT 2
US-10-371-474-64/c
; Sequence 64, Application US/10371474
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: William Gaarde
; APPLICANT: Brett P. Monia
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEKK4 EXPRESSION
; FILE REFERENCE: RTS-0169
; CURRENT APPLICATION NUMBER: US/10/371,474
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US/09/676,436
; PRIOR FILING DATE: 2000-09-29
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 64
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-371-474-64

Query Match 65.0%; Score 13; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.092;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3321 CAGGGTTCACG 3333
|||||
DB 13 CAGGGTTCACG 1

RESULT 3
US-09-953-562-3/c
; Sequence 3, Application US/09953562
; GENERAL INFORMATION:
; APPLICANT: ZERIA PHARMACEUTICALS CO., LTD.

;; TITLE OF INVENTION: METHOD OF SCREENING A DRUG FOR TREATMENT OF SQUAMOUS
;; FILE OF INVENTION: CELL CARCINOMA
;; FILE REFERENCE: E6114-01
;; CURRENT APPLICATION NUMBER: US/09/953,562
;; CURRENT FILING DATE: 2003-02-24
;; PRIOR APPLICATION NUMBER: JP 2001-083352
;; PRIOR FILING DATE: 2001-03-22
;; NUMBER OF SEQ ID NOS: 27
;; SEQ ID NO 3
;; LENGTH: 19
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: FGFR3 mutagenic oligonucleotide
US-09-953-562-3

Query Match 64.0%; Score 12.8; DB 1; Length 19;
Best Local Similarity 87.5%; Pred. No. 0.11;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAGGGGTTCC 3329
||||| |||||||
Db 18 AGGGATCAGGGGTAC 3

RESULT 4
US-09-953-562-25/c
;; Sequence 25, Application US/09953562
;; GENERAL INFORMATION:
;; APPLICANT: ZERIA PHARMACEUTICALS CO., LTD.
;; TITLE OF INVENTION: METHOD OF SCREENING A DRUG FOR TREATMENT OF SQUAMOUS
;; FILE REFERENCE: E6114-01
;; CURRENT APPLICATION NUMBER: US/09/953,562
;; CURRENT FILING DATE: 2003-02-24
;; PRIOR APPLICATION NUMBER: JP 2001-083352
;; PRIOR FILING DATE: 2001-03-22
;; NUMBER OF SEQ ID NOS: 27
;; SEQ ID NO 25
;; LENGTH: 24
;; TYPE: DNA
;; ORGANISM: homo sapiens
US-09-953-562-25

Query Match 64.0%; Score 12.8; DB 1; Length 24;
Best Local Similarity 87.5%; Pred. No. 0.13;
Matches 14; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAGGGGTTCC 3329
||||| |||||||
Db 21 AGGGATCAGGGGTAC 6

RESULT 5
US-08-591-486B-72
;; Sequence 72, Application US/08591486B
;; GENERAL INFORMATION:
;; APPLICANT: Schlingensiepen, Georg F
;; APPLICANT: Schlingensiepen, Reimar
;; APPLICANT: Schlingensiepen, Karl-Hermann
;; APPLICANT: Gottingen, Wolfgang Brysch
;; TITLE OF INVENTION: A Pharmaceutical Composition
;; TITLE OF INVENTION: Comprising Antisense-Nucleic Acid for Prevention and/or Treat
;; TITLE OF INVENTION: of Neuronal Injury, Degeneration and Cell Death and for the
;; TITLE OF INVENTION: Treatment of Neoplasms
;; NUMBER OF SEQUENCES: 185
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Jacobson, Price, Holman & Stern
;; STREET: 400 Seventh Street, N.W.
;; CITY: Washington, D.C.
;; COUNTRY: U.S.A.
;; ZIP: 20004
;; COMPUTER READABLE FORM:

;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC Compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/591,486B
;; FILING DATE: 11-JAN-1995
;; CLASSIFICATION: 514
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 93111059.7
;; FILING DATE: 10-JUL-1993
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: PCT/EP94/02218
;; FILING DATE: 6-JUL-1994
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Player, William E.
;; REGISTRATION NUMBER: 31,409
;; REFERENCE/DOCKET NUMBER: 10496/P60122
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (202) 638-6666
;; TELEFAX: (202) 393-9350
;; TELEX: RCA 248593 IDEA UR
;; INFORMATION FOR SEQ ID NO: 72:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 14 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: unknown
;; TOPOLOGY: unknown
;; MOLECULE TYPE: DNA (genomic)
;; ANTI-SENSE: YES
US-08-591-486B-72

Query Match 62.0%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 0.16;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3318 ATTCAGGGTTCCA 3331
||||| |||||||
Db 1 ATTCAGGGTTCCA 14

RESULT 6
US-09-953-562-24/c
;; Sequence 24, Application US/09953562
;; GENERAL INFORMATION:
;; APPLICANT: ZERIA PHARMACEUTICALS CO., LTD.
;; TITLE OF INVENTION: METHOD OF SCREENING A DRUG FOR TREATMENT OF SQUAMOUS
;; FILE REFERENCE: E6114-01
;; CURRENT APPLICATION NUMBER: US/09/953,562
;; CURRENT FILING DATE: 2003-02-24
;; PRIOR APPLICATION NUMBER: JP 2001-083352
;; PRIOR FILING DATE: 2001-03-22
;; NUMBER OF SEQ ID NOS: 27
;; SEQ ID NO 24
;; LENGTH: 24
;; TYPE: DNA
;; ORGANISM: homo sapiens
US-09-953-562-24

Query Match 56.0%; Score 11.2; DB 1; Length 24;
Best Local Similarity 81.2%; Pred. No. 0.94;
Matches 13; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAGGGGTTCC 3329
||||| |||||||
Db 21 AGGGATCAGGGGTAC 6

RESULT 7
US-10-371-474-61/c
;; Sequence 61, Application US/10371474
;; GENERAL INFORMATION:

APPLICANT: Donna T. Ward
APPLICANT: William Gaarde
APPLICANT: Brett P. Monia
APPLICANT: Jacqueline Wyatt
TITLE OF INVENTION: ANTISENSE MODULATION OF MEK4 EXPRESSION
FILE REFERENCE: RTS-0169
CURRENT APPLICATION NUMBER: US/10/371,474
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: US/09/676,436
PRIOR FILING DATE: 2000-09-29
NUMBER OF SEQ ID NOS: 89
SEQ ID NO 61
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Antisense Oligonucleotide
US-10-371-474-61

Query Match 50.0%; Score 10; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.7;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3314 AGGATTTCAG 3323
|||||
Db 13 AGGATTTCAG 4

RESULT 8
US-09-953-562-1
Sequence 1, Application US/09953562
GENERAL INFORMATION:
APPLICANT: ZERIA PHARMACEUTICALS CO., LTD.
TITLE OF INVENTION: METHOD OF SCREENING A DRUG FOR TREATMENT OF SQUAMOUS
TITLE OF INVENTION: CELL CARCINOMA
FILE REFERENCE: B6114-01
CURRENT APPLICATION NUMBER: US/09/953,562
CURRENT FILING DATE: 2003-02-24
PRIOR APPLICATION NUMBER: JP 2001-083352
PRIOR FILING DATE: 2001-03-22
NUMBER OF SEQ ID NOS: 27
SEQ ID NO 1
LENGTH: 29
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Upstream primer
US-09-953-562-1

Query Match 45.0%; Score 9; DB 1; Length 29;
Best Local Similarity 70.6%; Pred. No. 16;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3315 GGGATTGAGGGGTCCA 3331
||| | | | | | | | | |
Db 2 GGAATTCAACGCGTCCA 18

RESULT 9
US-08-591-486B-68
Sequence 68, Application US/08591486B
GENERAL INFORMATION:
APPLICANT: Schlingensiepen, Georg F
APPLICANT: Schlingensiepen, Reimar
APPLICANT: Schlingensiepen, Karl-Hermann
TITLE OF INVENTION: A Pharmaceutical Composition
TITLE OF INVENTION: Comprising Antisense-Nucleic Acid for Prevention and/or Treatm
TITLE OF INVENTION: of Neuronal Injury, Degeneration and Cell Death and for the
TITLE OF INVENTION: Treatment of Neoplasms
NUMBER OF SEQUENCES: 185
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jacobson, Price, Holman & Stern

STREET: 400 Seventh Street, N.W.
CITY: Washington, D.C
COUNTRY: U.S.A.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/591,486B
FILING DATE: 11-JAN-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 93111059.7
FILING DATE: 10-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP94/02218
FILING DATE: 6-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: Player, William E.
REGISTRATION NUMBER: 31,409
REFERENCE/DOCKET NUMBER: 10496/P60122
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 638-6666
TELEFAX: (202) 393-9350
TELEX: RCA 248593 IDEA UR
INFORMATION FOR SEQ ID NO: 68:
SEQUENCE CHARACTERISTICS:
LENGTH: 14 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
ANTI-SENSE: YES
US-08-591-486B-68

Query Match 44.0%; Score 8.8; DB 1; Length 14;
Best Local Similarity 83.3%; Pred. No. 13;
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3316 GGATTCAGGGT 3327
||| | | | | | | |
Db 3 GGTTCAGGAGT 14

RESULT 10
US-08-591-486B-67
Sequence 67, Application US/08591486B
GENERAL INFORMATION:
APPLICANT: Schlingensiepen, Georg F
APPLICANT: Schlingensiepen, Reimar
APPLICANT: Schlingensiepen, Karl-Hermann
APPLICANT: Göttingen, Wolfgang Brysch
TITLE OF INVENTION: A Pharmaceutical Composition
TITLE OF INVENTION: Comprising Antisense-Nucleic Acid for Prevention and/or Tr
TITLE OF INVENTION: of Neuronal Injury, Degeneration and Cell Death and for th
TITLE OF INVENTION: Treatment of Neoplasms
NUMBER OF SEQUENCES: 185
CORRESPONDENCE ADDRESS:
ADDRESSEE: Jacobson, Price, Holman & Stern
STREET: 400 Seventh Street, N.W.
CITY: Washington, D.C
COUNTRY: U.S.A.
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/591,486B
FILING DATE: 11-JAN-1995

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; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 93111059.7
; FILING DATE: 10-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/02218
; FILING DATE: 6-JUL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Player, William E.
; REGISTRATION NUMBER: 31,409
; REFERENCE/DOCKET NUMBER: 10496/P60122
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 638-6666
; TELEFAX: (202) 393-9350
; TELEX: RCA 248593 IDEA UR
; INFORMATION FOR SEQ ID NO: 67:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: YES
; US-08-591-486B-67

Query Match 44.0%; Score 8.8; DB 1; Length 18;
Best Local Similarity 83.3%; Pred. No. 15;
Matches 10; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3317 GATTCAGGGGTT 3328
   1 ||||| |||
Db 1 GTTCAGGAGTT 12

RESULT 11
US-09-955-518-11/c
; Sequence 11, Application US/09955518
; Patent No. US20020042138A1
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND
; FILE REFERENCE: 05118.000802
; CURRENT APPLICATION NUMBER: US/09/955,518
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: \ No. US20020042138A1e =
; OTHER INFORMATION: synthetic construct
US-09-955-518-11

Query Match 43.0%; Score 8.6; DB 1; Length 37;
Best Local Similarity 73.3%; Pred. No. 30;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3314 AGGATTCAGGGGTT 3328
   |||| |||| |||
Db 20 AGGTTTCATTAGTT 6

RESULT 12
US-09-953-562-26/c
; Sequence 26, Application US/09953562
; GENERAL INFORMATION:
; APPLICANT: ZERIA PHARMACEUTICALS CO., LTD.
```

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; TITLE OF INVENTION: METHOD OF SCREENING A DRUG FOR TREATMENT OF SQUAMOUS
; TITLE OF INVENTION: CELL CARCINOMA
; FILE REFERENCE: EG114-01
; CURRENT APPLICATION NUMBER: US/09/953,562
; CURRENT FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: JP 2001-083352
; PRIOR FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 27
; SEQ ID NO 26
; LENGTH: 10
; TYPE: DNA
; ORGANISM: homo sapiens
; US-09-953-562-26

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3316 GGATTCAGGG 3325
   |||| |||||
Db 10 GGATGCAGGG 1

RESULT 13
US-09-989-994-1270
; Sequence 1270, Application US/09989994
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1270
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-994-1270

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGATTCAG 3323
   | ||||| |||
Db 1 ATGGATTCAG 10

RESULT 14
US-09-989-994-1275
; Sequence 1275, Application US/09989994
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1275
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-994-1275
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```
Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAG 3323
Db 1 ATGGATTCAG 10

RESULT 15
US-09-989-994-1337
; Sequence 1337, Application US/09989994
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1337
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-994-1337

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAG 3323
Db 1 ATGGATTCAG 10

RESULT 16
US-09-990-186-1270
; Sequence 1270, Application US/09990186
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1270
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-990-186-1270

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAG 3323
Db 1 ATGGATTCAG 10

RESULT 17
US-09-990-186-1275
; Sequence 1275, Application US/09990186
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1275
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-990-186-1275

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAG 3323
Db 1 ATGGATTCAG 10

RESULT 18
US-09-990-186-1337
; Sequence 1337, Application US/09990186
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1337
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-990-186-1337

Query Match      42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3314 AGGGATTCAG 3323
Db 1 ATGGATTCAG 10

RESULT 19
US-10-330-627-435
; Sequence 435, Application US/10330627
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W.
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 435
```

; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-435

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTTCCA 3331
|||||

Db 1 AGGGCTTCA 10

RESULT 20

US-10-330-627-1496
; Sequence 1496, Application US/10330627
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W.
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1496
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-1496

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTTCCA 3331
|||||

Db 1 AGGGCTTCA 10

RESULT 21

US-10-330-627-1546
; Sequence 1546, Application US/10330627
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W.
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1546
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-1546

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTTCCA 3331
|||||

Db 1 AGGGCTTCA 10

RESULT 22

US-09-989-789-1270
; Sequence 1270, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 1270
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-1270

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCAG 3323
|||||

Db 1 ATGGATTCAG 10

RESULT 23

US-09-989-789-1275
; Sequence 1275, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 1275
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-1275

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCAG 3323
|||||

Db 1 ATGGATTCAG 10

RESULT 24

US-09-989-789-1337
; Sequence 1337, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789

```
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1337
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
; OTHER INFORMATION: DNA
US-09-989-789-1337

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCAG 3323
| | | | | | | |
Db 1 ATGGATTCAG 10

RESULT 25
US-08-591-486B-43
; Sequence 43, Application US/08591486B
; GENERAL INFORMATION:
; APPLICANT: Schlingensiepen, Georg F
; APPLICANT: Schlingensiepen, Reimar
; APPLICANT: Schlingensiepen, Karl-Hermann
; APPLICANT: Göttingen, Wolfgang Brysch
; TITLE OF INVENTION: A Pharmaceutical Composition
; TITLE OF INVENTION: Comprising Antisense-Nucleic Acid for Prevention and/or Treat
; TITLE OF INVENTION: Of Neuronal Injury, Degeneration and Cell Death and for the
; TITLE OF INVENTION: Treatment of Neoplasms
; NUMBER OF SEQUENCES: 185
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jacobson, Price, Holman & Stern
; STREET: 400 Seventh Street, N.W.
; CITY: Washington, D.C
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/591,486B
; FILING DATE: 11-JAN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 93111059.7
; FILING DATE: 10-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/02218
; FILING DATE: 6-JUL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Player, William E.
; REGISTRATION NUMBER: 31,409
; REFERENCE/DOCKET NUMBER: 10496/P60122
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 638-6666
; TELEFAX: (202) 393-9350
; TELE: RCA 248593 IDFA UR
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: YES
US-08-591-486B-43

Query Match 41.0%; Score 8.2; DB 1; Length 30;
Best Local Similarity 76.9%; Pred. No. 43;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3319 TTCAGGGTTCCA 3331
| | | | | | | |
Db 8 TTCAGGGTTTCA 20

RESULT 26
US-10-330-627-588
; Sequence 588, Application US/10330627
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcriptomes
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 588
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-588

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3319 TTCAGGGG 3326
| | | | | | | |
Db 2 TTCAGGGG 9

RESULT 27
US-10-033-145-524/c
; Sequence 524, Application US/10033145
; Publication No. US20020151515a1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 524
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-524

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3320 TCAGGGGT 3327
| | | | | | | |
Db 9 TCAGGGGT 2

RESULT 28
US-10-033-145-765
; Sequence 765, Application US/10033145
```

```
; Publication No. US2002015151A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GAO201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 765
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-765

Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3324 GGGTTCCA 3331
Db      3 GGGTTCCA 10

RESULT 29
US-10-033-145-1337
; Sequence 1337, Application US/10033145
; Publication No. US2002015151A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GAO201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1337
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1337

Query Match          40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 30;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3319 TTCAGGGG 3326
Db      2 TTCAGGGG 9

RESULT 30
US-10-033-145-17
; Sequence 17, Application US/10371474
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; APPLICANT: William Gaarde
; APPLICANT: Brett P. Monia
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF MEK4 EXPRESSION
; FILE REFERENCE: RTS-0169
; CURRENT APPLICATION NUMBER: US/10/371,474
; CURRENT FILING DATE: 2003-02-21
; PRIOR APPLICATION NUMBER: US/09/676,436
; PRIOR FILING DATE: 2000-09-29
```

```
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 17
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-10-371-474-17

Query Match          40.0%; Score 8; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3317 GATTGAGG 3324
Db      8 GATTGAGG 15

RESULT 31
US-08-591-486B-163
; Sequence 163, Application US/08591486B
; GENERAL INFORMATION:
; APPLICANT: Schlingensiepen, Georg F
; APPLICANT: Schlingensiepen, Reimar
; APPLICANT: Schlingensiepen, Karl-Hermann
; APPLICANT: Göttingen, Wolfgang Brysch
; TITLE OF INVENTION: A Pharmaceutical Composition
; TITLE OF INVENTION: Comprising Antisense-Nucleic Acid for Prevention and/or Tr
; TITLE OF INVENTION: of Neuronal Injury, Degeneration and Cell Death and for th
; TITLE OF INVENTION: Treatment of Neoplasms
; NUMBER OF SEQUENCES: 185
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jacobson, Price, Holman & Stern
; STREET: 400 Seventh Street, N.W.
; CITY: Washington, D.C.
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/591,486B
; FILING DATE: 11-JAN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 93111059.7
; FILING DATE: 10-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP94/02218
; FILING DATE: 6-JUL-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Player, William E.
; REGISTRATION NUMBER: 31,409
; REFERENCE/DOCKET NUMBER: 10496/P60122
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 638-6666
; TELEFAX: (202) 393-9350
; TELEX: RCA 248593 IDEA UR
; INFORMATION FOR SEQ ID NO: 163:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; ANTI-SENSE: YES
US-08-591-486B-163

Query Match          39.0%; Score 7.8; DB 1; Length 16;
Best Local Similarity 81.8%; Pred. No. 50;
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```


Thu Oct 2 16:05:23 2003

QY 3314 AGGGATTGAG 3324
|||||
Db 1 AGGGATAAGG 11

RESULT 32
US-09-955-518-18/c
; Sequence 18, Application US/09955518
; Patent No. US20020042138A1
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND
; TITLE OF INVENTION: METHODS OF USE
; FILE REFERENCE: 05118.0008U2
; CURRENT APPLICATION NUMBER: US/09/955,518
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:\ No. US20020042138A1e =
; OTHER INFORMATION: synthetic construct
US-09-955-518-18

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 1.3e+04;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCA 3322
|||||
Db 9 AGGGTTTCA 1

Search completed: October 2, 2003, 15:46:01
Job time : 3 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 2, 2003, 15:40:42 : Search time 0.001 Seconds
(without alignments)
1023.400 Million cell updates/sec

Title: us-09-676-436-3

Perfect score: 20

Sequence: 1 agggattcaggggttcagc 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 0.5

Searched: 1282 seqs, 25585 residues

Total number of hits satisfying chosen parameters: 2520

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 50 summaries

Database : rni.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	10	50.0	10	1	US-07-704-288C-25
C 2	10	50.0	10	1	US-08-379-259-25
C 3	8.6	43.0	37	1	US-08-874-569B-11
C 4	8.6	43.0	37	1	US-09-955-518-11
C 5	8.4	42.0	10	1	US-09-508-753B-123
C 6	8.4	42.0	10	1	US-09-508-753B-149
C 7	8.2	41.0	30	1	US-08-898-324-21
C 8	8.2	41.0	30	1	US-08-329-892B-21
C 9	8	40.0	8	1	US-08-859-954-239
C 10	8	40.0	10	1	US-08-590-804-20
C 11	8	40.0	10	1	US-09-508-753B-199
C 12	8	40.0	10	1	US-09-508-753B-253
C 13	7.4	37.0	9	1	US-08-899-324-6
C 14	7.4	37.0	9	1	US-08-329-892B-6
C 15	7.4	37.0	9	1	US-08-874-569B-18
C 16	7.4	37.0	9	1	US-09-955-518-18
C 17	7.4	37.0	10	1	US-07-704-288C-5
C 18	7.4	37.0	10	1	US-08-379-259-5
C 19	7.4	37.0	10	1	US-09-508-753B-87
C 20	7.4	37.0	10	1	US-09-508-753B-121
C 21	7.4	37.0	10	1	US-09-508-753B-134
C 22	7.4	37.0	10	1	US-09-508-753B-172
C 23	7.2	36.0	37	1	US-09-508-753B-15
C 24	7	35.0	8	1	US-08-859-954-32
C 25	7	35.0	8	1	US-08-859-954-240
C 26	7	35.0	8	1	US-08-859-954-292
C 27	7	35.0	8	1	US-09-063-450-8
C 28	7	35.0	8	1	US-09-398-499-15
C 29	7	35.0	8	1	US-09-398-499-38
C 30	7	35.0	10	1	US-08-590-804-25
C 31	7	35.0	10	1	US-09-398-499-58
C 32	7	35.0	10	1	US-09-508-753B-22
C 33	7	35.0	10	1	US-09-508-753B-195

C 34	7	35.0	10	1	US-09-508-753B-289	Sequence 289, App
C 35	7	35.0	21	1	US-08-899-324-24	Sequence 24, App
C 36	7	35.0	21	1	US-08-329-892B-24	Sequence 24, App
C 37	7	35.0	37	1	US-08-874-569B-13	Sequence 13, App
C 38	7	35.0	37	1	US-09-955-518-13	Sequence 13, App
C 39	7	35.0	49	1	US-08-874-569B-4	Sequence 4, App
C 40	7	35.0	49	1	US-09-955-518-4	Sequence 4, App
C 41	6.8	34.0	10	1	US-09-508-753B-53	Sequence 53, App
C 42	6.8	34.0	10	1	US-09-508-753B-94	Sequence 94, App
C 43	6.8	34.0	10	1	US-09-508-753B-460	Sequence 460, App
C 44	6.6	33.0	21	1	US-08-874-569B-9	Sequence 9, App
C 45	6.6	33.0	21	1	US-09-955-518-9	Sequence 9, App
C 46	6.4	32.0	8	1	US-08-859-954-130	Sequence 130, App
C 47	6.4	32.0	8	1	US-08-859-954-131	Sequence 131, App
C 48	6.4	32.0	8	1	US-08-859-954-270	Sequence 270, App
C 49	6.4	32.0	8	1	US-08-859-954-509	Sequence 509, App
C 50	6.4	32.0	8	1	US-08-859-954-537	Sequence 537, App

ALIGNMENTS

RESULT 1
US-07-704-288C-25/c
; Sequence 25, Application US/07704288C
; Patent No. 5399680

GENERAL INFORMATION:
; APPLICANT: LAMB, CHRISTOPHER J.

; APPLICANT: ZHU, QUN

; TITLE OF INVENTION: PLANT DEFENSE GENES AND PLANT DEFENSE REGULATORY

; TITLE OF INVENTION: ELEMENTS

; NUMBER OF SEQUENCES: 26

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK

; STREET: 444 South Flower Street, Suite 2000

; CITY: Los Angeles

; STATE: California

; COUNTRY: United States

; ZIP: 90071-2921

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07704,288C

; FILING DATE: 22-MAY-1991

; CLASSIFICATION: 800

; ATTORNEY/AGENT INFORMATION:

; NAME: Reiter, Stephen E.

; REGISTRATION NUMBER: 31,192

; REFERENCE/DOCKET NUMBER: P31 8899

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (619) 546-4737

; TELEFAX: (619) 546-9392

; INFORMATION FOR SEQ ID NO: 25:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 10 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: DNA (genomic)

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

US-07-704-288C-25

Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3322 AGGGTTCCA 3331

|||||||

; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 123
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-123

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3317 GATTCAGGGG 3326
|||||||
DB 1 GATTCAGAGG 10

RESULT 6

US-09-508-753B-149/c
; Sequence 149, Application US/09508753B
; Patent No. 6544736

; GENERAL INFORMATION:
; APPLICANT: AKIRA SHIMAMOTO

; APPLICANT: YASUHIRO FURUICHI
; APPLICANT: YUKO SHIBATA

; APPLICANT: HIROKO FUNAKI
; APPLICANT: EIJI OHARA

; APPLICANT: MASANORI WATAHIKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample

; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B

; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324

; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472

; SEQ ID NO 149
; LENGTH: 10
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer

US-09-508-753B-149

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 11;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3317 GATTCAGGGG 3326
|||||||
DB 10 GATTCAGAGG 1

RESULT 7

US-08-899-324-21
; Sequence 21, Application US/08899324
; Patent No. 5945329

; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus

; APPLICANT: Keilland-Brandt, Morten
; APPLICANT: Mortensen, Uffe

; APPLICANT: Olesen, Kjeld
; APPLICANT: Stennicke, Henning

; APPLICANT: Wagner, Fred
; TITLE OF INVENTION: CUSTOMIZED PROTEASES

; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESSES:

; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 5945329 West Center, 90 S. 7th Street

; CITY: Minneapolis
; STATE: MN

; COUNTRY: U.S.A.
; ZIP: 55402

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/899,324
; FILING DATE: 23-JUL-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/329,892
; FILING DATE: 27-OCT-1994
; APPLICATION NUMBER: 08/144,704
; FILING DATE: 28-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettleberger, Denise M
; REGISTRATION NUMBER: 33,924
; REFERENCE/DOCKET NUMBER: 8648.44USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332-9081
; TELEX:

; INFORMATION FOR SEQ ID NO: 21:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 30 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: Genomic DNA

; HYPOTHETICAL: NO

; ANTI-SENSE: NO

; FRAGMENT TYPE:

; ORIGINAL SOURCE:

; IMMEDIATE SOURCE:
; CLONE: Oligo N51Q

US-08-899-324-21

Query Match 41.0%; Score 8.2; DB 1; Length 30;

Best Local Similarity 76.9%; Pred. No. 16;

Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3316 GGATTCAGGGGTT 3328
||| |||||
DB 18 GGTTCAGGGGGT 30

RESULT 8

US-08-329-892B-21

; Sequence 21, Application US/08329892B

; Patent No. 6187579

; GENERAL INFORMATION:

; APPLICANT: Breddam, Klaus

; APPLICANT: Keilland-Brandt, Morten

; APPLICANT: Mortensen, Uffe

; APPLICANT: Olesen, Kjeld

; APPLICANT: Stennicke, Henning

; APPLICANT: Wagner, Fred

; TITLE OF INVENTION: CUSTOMIZED PROTEASE

; NUMBER OF SEQUENCES: 33

; CORRESPONDENCE ADDRESSES:

; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt

; STREET: 3100 No. 6187579 West Center, 90 S. 7th Street

; CITY: Minneapolis

; STATE: MN

; COUNTRY: U.S.A.

; ZIP: 55402

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; COMPUTER: IBM Compatible

; OPERATING SYSTEM: DOS

; SOFTWARE: FastSeq Version 1.5

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/329,892B

;; FILING DATE: 27-OCT-1994
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/144,704
;; FILING DATE: 28-OCT-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Kettleberger, Denise M
;; REGISTRATION NUMBER:
;; REFERENCE/DOCKET NUMBER: 8648.44US01
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 612/332-5300
;; TELEFAX: 612/332-9081
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 21:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 30 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: Genomic DNA
;; ANTI-SENSE: NO
;; FRAGMENT TYPE:
;; ORIGINAL SOURCE:
;; IMMEDIATE SOURCE:
;; CLONE: Oligo N51Q
US-08-329-892B-21

Query Match 41.0%; Score 8.2; DB 1; Length 30;
Best Local Similarity 76.9%; Pred. No. 16;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3316 GGATTCAGGGGT 3328
||| |||||
Db 18 GGTTCAGGGGT 30

RESULT 9
US-08-859-954-239/C
;; Sequence 239, Application US/08859954
;; Patent No. 6083695
;; GENERAL INFORMATION:
;; APPLICANT: Hardin, Susan H.
;; APPLICANT: Homayouni, Ramin
;; APPLICANT: Hardin, Paul E.
;; TITLE OF INVENTION: Design and Optimized Primer Library for
;; TITLE OF INVENTION: Gene Sequencing and Method Thereof
;; NUMBER OF SEQUENCES: 566
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Fulbright & Jaworski L.L.P.
;; STREET: 1301 McKinney, Suite 5100
;; CITY: Houston
;; STATE: Texas
;; COUNTRY: U.S.A.
;; ZIP: 77010-3095
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/859,954
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/632,782
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Paul, Thomas D.
;; REGISTRATION NUMBER: 32,714
;; REFERENCE/DOCKET NUMBER: D-5900
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 713/651-5325

;; TELEFAX: 713/651-5246
;; INFORMATION FOR SEQ ID NO: 239:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 8 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: other nucleic acid
;; DESCRIPTION: /desc = "oligonucleotide"
;; HYPOTHETICAL: YES
;; ANTI-SENSE: YES
US-08-859-954-239

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3314 AGGGATTC 3321
|||||||
Db 8 AGGGATTC 1

RESULT 10
US-08-590-804-20
;; Sequence 20, Application US/08590804
;; Patent No. 5780273
;; GENERAL INFORMATION:
;; APPLICANT: Burg, J. Lawrence
;; TITLE OF INVENTION: INSERTION ELEMENTS AND AMPLIFIABLE
;; TITLE OF INVENTION: NUCLEIC ACIDS
;; NUMBER OF SEQUENCES: 32
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Amoco Corporation
;; STREET: 55 Shuman Blvd., Suite 600
;; CITY: Naperville
;; STATE: Illinois
;; COUNTRY: USA
;; ZIP: 60563

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/590,804
;; FILING DATE: 24-JAN-1996
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US/08/357,779
;; FILING DATE:
;; APPLICATION NUMBER: US 08/045,587
;; FILING DATE: 09-APR-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Galloway, No. 5780273val B
;; REGISTRATION NUMBER: 33,595
;; REFERENCE/DOCKET NUMBER: 32,468
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 708-717-2447
;; TELEFAX: 708-717-2430
;; INFORMATION FOR SEQ ID NO: 20:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 10 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
US-08-590-804-20

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3321 CAGGGGTT 3328
Db 1 CAGGGGTT 8

RESULT 11
US-09-508-753B-199
; Sequence 199, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Eiiji OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 199
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-199

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3317 GATTCAGG 3324
Db 3 GATTCAGG 10

RESULT 12
US-09-508-753B-253/c
; Sequence 253, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Eiiji OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 253
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-253

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3317 GATTCAGG 3324
Db 8 GATTCAGG 1

RESULT 13
US-08-899-324-6/c
; Sequence 6, Application US/08899324
; Patent No. 5945329
; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus
; APPLICANT: Keiland-Brandt, Morten
; APPLICANT: Mortensen, Ofte
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stennicke, Henning
; APPLICANT: Wagner, Fred
; TITLE OF INVENTION: CUSTOMIZED PROTEASES
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 5945329west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/899,324
; FILING DATE: 23-JUL-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/329,892
; FILING DATE: 27-OCT-1994
; APPLICATION NUMBER: 08/144,704
; FILING DATE: 28-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettleberger, Denise M
; REGISTRATION NUMBER: 33,924
; REFERENCE/DOCKET NUMBER: 8648.44USC1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332-9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-08-899-324-6

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.5e+03;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCA 3322
Db 9 AGGAATTCA 1

RESULT 14
US-08-329-892B-6/c
; Sequence 6, Application US/08329892B
; Patent No. 6187579
; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus
; APPLICANT: Keiland-Brandt, Morten

; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stennicke, Henning
; APPLICANT: Wagner, Fred
; TITLE OF INVENTION: CUSTOMIZED PROTEASE
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Walter & Schmidt
; STREET: 3100 No. 6187579 West Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN
; COUNTRY: U.S.A.
; ZIP: 55402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq Version 1.5
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/329,892B
; FILING DATE: 27-OCT-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/144,704
; FILING DATE: 28-OCT-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Kettieberger, Denise M
; REGISTRATION NUMBER:
; REFERENCE/DOCKET NUMBER: 8648.44US01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 612/332-5300
; TELEFAX: 612/332-9081
; TELEX:
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
US-08-329-892B-6

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.5e+03;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGATTCA 3322
Db 9 AGGATTCA 1

RESULT 15
US-08-874-569B-18/c
; Sequence 18, Application US/08874569B
; Patent No. 6306650
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-BRYTHROID KRUPPEL-LIKE FACTORS AND
; TITLE OF INVENTION: METHODS OF USE
; FILE REFERENCE: 05118.000802
; CURRENT APPLICATION NUMBER: US/08/874,569B
; CURRENT FILING DATE: 1997-06-13
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 9

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:\ No. 6306650e =
; OTHER INFORMATION: synthetic construct
US-08-874-569B-18

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.5e+03;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGATTCA 3322
Db 9 AGGATTCA 1

RESULT 16
US-09-955-518-18/c
; Sequence 18, Application US/09955518
; Patent No. 6475740
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-BRYTHROID KRUPPEL-LIKE FACTORS AND
; TITLE OF INVENTION: METHODS OF USE
; FILE REFERENCE: 05118.000802
; CURRENT APPLICATION NUMBER: US/09/955,518
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:\ No. 6475740e =
; OTHER INFORMATION: synthetic construct
US-09-955-518-18

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 4.5e+03;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGATTCA 3322
Db 9 AGGATTCA 1

RESULT 17
US-07-704-288C-5/c
; Sequence 5, Application US/07704288C
; Patent No. 5399680
; GENERAL INFORMATION:
; APPLICANT: LAMB, CHRISTOPHER J.
; APPLICANT: ZHU, QUN
; TITLE OF INVENTION: PLANT DEFENSE GENES AND PLANT DEFENSE REGULATORY
; TITLE OF INVENTION: ELEMENTS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: California
; COUNTRY: United States
; ZIP: 90071-2921
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:

```

; APPLICATION NUMBER: US/07/704,288C
; FILING DATE: 22-MAY-1991
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P31 8899
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 546-4737
; TELEFAX: (619) 546-9392
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
US-07-704-288C-5

Query Match 37.0%; Score 7.4; DB 1; Length 10;
Best Local Similarity 88.9%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3317 GATTGAGGG 3325
      |||| ||||
Db 9 GATTGAGGG 1

RESULT 18
US-08-379-259-5/c
; Sequence 5, Application US/08379259
; Patent No. 5695939
; GENERAL INFORMATION:
; APPLICANT: LAMB, CHRISTOPHER J.
; APPLICANT: ZHU, QUN
; TITLE OF INVENTION: PLANT DEFENSE GENES AND PLANT
; TITLE OF INVENTION: DEFENSE REGULATORY
; TITLE OF INVENTION: ELEMENTS
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK
; STREET: 444 South Flower Street, Suite 2000
; CITY: Los Angeles
; STATE: California
; COUNTRY: United States
; ZIP: 90071-2921
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/379,259
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/704,288
; FILING DATE: 22-MAY-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Reiter, Stephen E.
; REGISTRATION NUMBER: 31,192
; REFERENCE/DOCKET NUMBER: P31 8899
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 546-4737
; TELEFAX: (619) 546-9392
; TELEX:
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: unknown

```


Query Match 37.0%; Score 7.4; DB 1; Length 10;
Best Local Similarity 88.9%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3317 GATTCAGG 3325
|||||||
Db 1 GATTCAGAG 9

RESULT 21
US-09-508-753B-134/c
; Sequence 134, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKIRA SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: EIJI OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 134
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-134

Query Match 37.0%; Score 7.4; DB 1; Length 10;
Best Local Similarity 88.9%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3317 GATTCAGG 3325
|||||||
Db 10 GATTCAGAG 2

RESULT 22
US-09-508-753B-172
; Sequence 172, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKIRA SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: EIJI OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 172
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-172

Query Match 37.0%; Score 7.4; DB 1; Length 10;
Best Local Similarity 88.9%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3321 CAGGGGTTTC 3329
|||||||
Db 2 CAGAGGTTTC 10

RESULT 23
US-09-508-753B-15/c
; Sequence 15, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKIRA SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: EIJI OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 15
; LENGTH: 37
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Oligoribonucleotide
US-09-508-753B-15

Query Match 36.0%; Score 7.2; DB 1; Length 37;
Best Local Similarity 75.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 3320 TCAGGGGTTTCCA 3331
|||||||
Db 24 TCAGAGTGCTCA 13

RESULT 24
US-08-859-954-32
; Sequence 32, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.

```

; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-32

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e-03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3325 GGTCCA 3331
Db 1 GGTCCA 7

RESULT 25
US-08-859-954-240/c
; Sequence 240, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 240:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-32

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e-03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3326 GTTCCAG 3332
Db 7 GTTCCAG 1

RESULT 26
US-08-859-954-292/c
; Sequence 292, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 292:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-292

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e-03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3326 GTTCCAG 3332
Db 7 GTTCCAG 1

RESULT 27
US-09-063-450-8/c
; Sequence 8, Application US/09063450
; Patent No. 6109776

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; GENERAL INFORMATION:
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Method and System for Computationally Identifying
;   Clusters Within a Set of Sequences
; FILE REFERENCE: 77001.002
; CURRENT APPLICATION NUMBER: US/09/063,450
; CURRENT FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:example
; OTHER INFORMATION: sequence illustrating a computational methodology
US-09-063-450-8

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3314 AGGGATT 3320
Db 7 AGGGATT 1

RESULT 28
US-09-398-499-15/c
; Sequence 15, Application US/09398499
; Patent No. 6284466
; GENERAL INFORMATION:
; APPLICANT: Benson, Andrew K.
; TITLE OF INVENTION: HIGH RESOLUTION GENOME SCANNING
; FILE REFERENCE: UNL 2963
; CURRENT APPLICATION NUMBER: US/09/398,499
; CURRENT FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 60/101,011
; PRIOR FILING DATE: 1998-09-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 15
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Primer
US-09-398-499-15

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3327 TTCCAGC 3333
Db 7 TTCCAGC 1

RESULT 29
US-09-398-499-38
; Sequence 38, Application US/09398499
; Patent No. 6284466
; GENERAL INFORMATION:
; APPLICANT: Benson, Andrew K.
; TITLE OF INVENTION: HIGH RESOLUTION GENOME SCANNING
; FILE REFERENCE: UNL 2963
; CURRENT APPLICATION NUMBER: US/09/398,499
; CURRENT FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 60/101,011
; PRIOR FILING DATE: 1998-09-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38

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```

; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Primer
US-09-398-499-38

Query Match          35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3327 TTCCAGC 3333
Db 2 TTCCAGC 8

RESULT 30
US-08-590-804-25/c
; Sequence 25, Application US/08590804
; Patent No. 5780273
; GENERAL INFORMATION:
; APPLICANT: Burg, J. Lawrence
; TITLE OF INVENTION: INSERTION ELEMENTS AND AMPLIFIABLE
;   NUCLEIC ACIDS
; NUMBER OF SEQUENCES: 32
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Amoco Corporation
; STREET: 55 Shuman Blvd., Suite 600
; CITY: Naperville
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60563
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/590,804
; FILING DATE: 24-JAN-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/357,779
; FILING DATE:
; APPLICATION NUMBER: US 08/045,587
; FILING DATE: 09-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Galloway, No. 5780273val B
; REGISTRATION NUMBER: 33,595
; REFERENCE/DOCKET NUMBER: 32,468
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 708-717-2447
; TELEFAX: 708-717-2430
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-590-804-25

Query Match          35.0%; Score 7; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3317 GATTCAG 3323
Db 7 GATTCAG 1

RESULT 31

```

US-09-398-499-58
; Sequence 58, Application US/09398499
; Patent No. 6284466

; GENERAL INFORMATION:
; APPLICANT: Benson, Andrew K.
; TITLE OF INVENTION: HIGH RESOLUTION GENOME SCANNING
; FILE REFERENCE: UNL 2963
; CURRENT APPLICATION NUMBER: US/09/398,499
; PRIOR FILING DATE: 1999-09-17
; PRIOR APPLICATION NUMBER: 60/101,011
; PRIOR FILING DATE: 1998-09-18
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 58

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer

US-09-398-499-58
Query Match 35.0%; Score 7; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3327 TTCCAGC 3333
Db 4 TTCCAGC 10
|||||

RESULT 32

US-09-508-753B-22/c
; Sequence 22, Application US/09508753B
; Patent No. 6544736

; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Eiji OHARA
; APPLICANT: Masanori WATAHAKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 22

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer

US-09-508-753B-22
Query Match 35.0%; Score 7; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3327 TTCCAGC 3333
Db 8 TTCCAGC 2
|||||

RESULT 33

US-09-508-753B-195
; Sequence 195, Application US/09508753B
; Patent No. 6544736

; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA

; APPLICANT: Hiroko FUNAKI
; APPLICANT: Eiji OHARA
; APPLICANT: Masanori WATAHAKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 195
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer

US-09-508-753B-195
Query Match 35.0%; Score 7; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3316 GGATTCA 3322
Db 1 GGATTCA 7
|||||

RESULT 34

US-09-508-753B-289/c
; Sequence 289, Application US/09508753B
; Patent No. 6544736

; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Eiji OHARA
; APPLICANT: Masanori WATAHAKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 289
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer

US-09-508-753B-289
Query Match 35.0%; Score 7; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 56;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3316 GGATTCA 3322
Db 10 GGATTCA 4
|||||

RESULT 35

US-08-899-324-24/c
; Sequence 24, Application US/08899324
; Patent No. 5945329

; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus
; APPLICANT: Keiland-Brandt, Morten
; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stennicke, Henning
; APPLICANT: Wagner, Fred

;; TITLE OF INVENTION: CUSTOMIZED PROTEASES
;; NUMBER OF SEQUENCES: 33
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
;; STREET: 3100 No. 5945329west Center, 90 S. 7th Street
;; CITY: Minneapolis
;; STATE: MN
;; COUNTRY: U.S.A.
;; ZIP: 55402
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSEQ Version 1.5
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/899,324
;; FILING DATE: 23-JUL-1997
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/329,892
;; FILING DATE: 27-OCT-1994
;; APPLICATION NUMBER: 08/144,704
;; FILING DATE: 28-OCT-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Kettleberger, Denise M
;; REGISTRATION NUMBER: 33,924
;; REFERENCE/DOCKET NUMBER: 8648.44USC1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 612/332-5300
;; TELEFAX: 612/332-9081
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 24:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 21 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: Genomic DNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE:
;; ORIGINAL SOURCE:
;; IMMEDIATE SOURCE:
;; CLONE: Oligo E145D
;; US-08-899-324-24

Query Match 35.0%; Score 7; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTC 3321
Db 14 GGGATTC 8

RESULT 36
US-08-329-892B-24/c
; Sequence 24, Application US/08329892B
; Patent No. 6187579
; GENERAL INFORMATION:
; APPLICANT: Breddam, Klaus
; APPLICANT: Kelland-Brandt, Morten
; APPLICANT: Mortensen, Uffe
; APPLICANT: Olesen, Kjeld
; APPLICANT: Stennicke, Henning
; APPLICANT: Wagner, Fred
; TITLE OF INVENTION: CUSTOMIZED PROTEASE
; NUMBER OF SEQUENCES: 33
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
; STREET: 3100 No. 6187579west Center, 90 S. 7th Street
; CITY: Minneapolis
; STATE: MN

;; COUNTRY: U.S.A.
;; ZIP: 55402
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Diskette
;; COMPUTER: IBM Compatible
;; OPERATING SYSTEM: DOS
;; SOFTWARE: FastSEQ Version 1.5
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/329,892B
;; FILING DATE: 27-OCT-1994
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/144,704
;; FILING DATE: 28-OCT-1993
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Kettleberger, Denise M
;; REGISTRATION NUMBER:
;; REFERENCE/DOCKET NUMBER: 8648.44US01
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 612/332-5300
;; TELEFAX: 612/332-9081
;; TELEX:
;; INFORMATION FOR SEQ ID NO: 24:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 21 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: Genomic DNA
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; FRAGMENT TYPE:
;; ORIGINAL SOURCE:
;; IMMEDIATE SOURCE:
;; CLONE: Oligo E145D
;; US-08-329-892B-24

Query Match 35.0%; Score 7; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTC 3321
Db 14 GGGATTC 8

RESULT 37
US-08-874-569B-13/c
; Sequence 13, Application US/08874569B
; Patent No. 6306650
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND
; FILE REFERENCE: 05118.0008U2
; CURRENT APPLICATION NUMBER: US/08/874,569B
; CURRENT FILING DATE: 1997-06-13
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 37
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: \ No. 6306650e =
; OTHER INFORMATION: synthetic construct
US-08-874-569B-13

Query Match 35.0%; Score 7; DB 1; Length 37;
Best Local Similarity 66.7%; Pred. No. 68;

Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	
QY 3314 AGGATTCAGGGTT 3328	
Db 20 AGGAGGGTGTGGTT 6	
RESULT 38	
US-09-955-518-13/c	
; Sequence 13, Application US/09955518	
; Patent No. 6475740	
; GENERAL INFORMATION:	
; APPLICANT: Townes, Tim M.	
; APPLICANT: Donze, David	
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND	
; TITLE OF INVENTION: METHODS OF USE	
; FILE REFERENCE: 05118.0008U2	
; CURRENT APPLICATION NUMBER: US/09/955,518	
; PRIOR FILING DATE: 2001-09-18	
; PRIOR APPLICATION NUMBER: 60/019,769	
; PRIOR FILING DATE: 1996-06-14	
; NUMBER OF SEQ ID NOS: 21	
; SOFTWARE: FastSeq for Windows Version 4.0	
; SEQ ID NO 13	
; LENGTH: 37	
; TYPE: DNA	
; ORGANISM: Artificial Sequence	
; FEATURE:	
; OTHER INFORMATION: Description of Artificial Sequence: \ No. 6475740e =	
; OTHER INFORMATION: synthetic construct	
US-09-955-518-13	
Query Match 35.0%; Score 7; DB 1; Length 37;	
Best Local Similarity 66.7%; Pred. No. 68;	
Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	
QY 3314 AGGATTCAGGGTT 3328	
Db 20 AGGAGGGTGTGGTT 6	
RESULT 39	
US-08-874-569B-4/c	
; Sequence 4, Application US/08874569B	
; Patent No. 6306650	
; GENERAL INFORMATION:	
; APPLICANT: Townes, Tim M.	
; APPLICANT: Donze, David	
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND	
; TITLE OF INVENTION: METHODS OF USE	
; FILE REFERENCE: 05118.0008U2	
; CURRENT APPLICATION NUMBER: US/08/874,569B	
; CURRENT FILING DATE: 1997-06-13	
; PRIOR APPLICATION NUMBER: 60/019,769	
; PRIOR FILING DATE: 1996-06-14	
; NUMBER OF SEQ ID NOS: 21	
; SOFTWARE: FastSeq for Windows Version 4.0	
; SEQ ID NO 4	
; LENGTH: 49	
; TYPE: DNA	
; ORGANISM: Artificial Sequence	
; FEATURE:	
; OTHER INFORMATION: Description of Artificial Sequence: \ No. 6306650e =	
; OTHER INFORMATION: synthetic construct	
US-08-874-569B-4	
Query Match 35.0%; Score 7; DB 1; Length 49;	
Best Local Similarity 66.7%; Pred. No. 70;	
Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	
QY 3314 AGGATTCAGGGTT 3328	
Db 33 AGGAGGGTGTGGTT 19	

Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	
QY 3314 AGGATTCAGGGTT 3328	
Db 33 AGGAGGGTGTGGTT 19	
RESULT 40	
US-09-955-518-4/c	
; Sequence 4, Application US/09955518	
; Patent No. 6475740	
; GENERAL INFORMATION:	
; APPLICANT: Townes, Tim M.	
; APPLICANT: Donze, David	
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND	
; TITLE OF INVENTION: METHODS OF USE	
; FILE REFERENCE: 05118.0008U2	
; CURRENT APPLICATION NUMBER: US/09/955,518	
; CURRENT FILING DATE: 2001-09-18	
; PRIOR APPLICATION NUMBER: 60/019,769	
; PRIOR FILING DATE: 1996-06-14	
; NUMBER OF SEQ ID NOS: 21	
; SOFTWARE: FastSeq for Windows Version 4.0	
; SEQ ID NO 4	
; LENGTH: 49	
; TYPE: DNA	
; ORGANISM: Artificial Sequence	
; FEATURE:	
; OTHER INFORMATION: Description of Artificial Sequence: \ No. 6475740e =	
; OTHER INFORMATION: synthetic construct	
US-09-955-518-4	
Query Match 35.0%; Score 7; DB 1; Length 49;	
Best Local Similarity 66.7%; Pred. No. 70;	
Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;	
QY 3314 AGGATTCAGGGTT 3328	
Db 33 AGGAGGGTGTGGTT 19	
RESULT 41	
US-09-508-753B-53/c	
; Sequence 53, Application US/09508753B	
; Patent No. 6544736	
; GENERAL INFORMATION:	
; APPLICANT: Akira SHIMAMOTO	
; APPLICANT: Yasuhiro FURUICHI	
; APPLICANT: Yuko SHIBATA	
; APPLICANT: Hiroko FUNAKI	
; APPLICANT: Ei-ji OHARA	
; APPLICANT: Masanori WATAHAKI	
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample	
; FILE REFERENCE: 00162/HG	
; CURRENT APPLICATION NUMBER: US/09/508,753B	
; CURRENT FILING DATE: 2000-06-16	
; PRIOR APPLICATION NUMBER: JP 9/270324	
; PRIOR FILING DATE: 1997-09-18	
; NUMBER OF SEQ ID NOS: 472	
; SEQ ID NO 53	
; LENGTH: 10	
; TYPE: DNA	
; ORGANISM: Artificial Sequence	
; FEATURE:	
; OTHER INFORMATION: Description of Artificial Sequence: Primer	
US-09-508-753B-53	
Query Match 34.0%; Score 6.8; DB 1; Length 10;	
Best Local Similarity 80.0%; Pred. No. 71;	
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
QY 3317 GATTCAGGGG 3326	
Db 10 GTTTCAGGAG 1	
RESULT 42	
US-09-508-753B-94	

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; Sequence 94, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Ei-ji OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 94
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-94

Query Match          34.0%; Score 6.8; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 71;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3317 GATTGAGGG 3326
Db 1 GTTTCAGGAG 10

RESULT 43
US-09-508-753B-460/C
; Sequence 460, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: Akira SHIMAMOTO
; APPLICANT: Yasuhiro FURUICHI
; APPLICANT: Yuko SHIBATA
; APPLICANT: Hiroko FUNAKI
; APPLICANT: Ei-ji OHARA
; APPLICANT: Masanori WATAHIKI
; TITLE OF INVENTION: Method for synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 460
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-460

Query Match          34.0%; Score 6.8; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 71;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3317 GATTGAGGG 3326
Db 10 GATTTCAGGG 1

RESULT 44
US-08-874-569B-9
; Sequence 9, Application US/08874569B
; Patent No. 6306650
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND
; TITLE OF INVENTION: METHODS OF USE
; FILE REFERENCE: 05118.0008U2
; CURRENT APPLICATION NUMBER: US/08/874,569B
; CURRENT FILING DATE: 1997-06-13
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:\ No. 6306650e =
; OTHER INFORMATION: synthetic construct
US-08-874-569B-9

Query Match          33.0%; Score 6.6; DB 1; Length 21;
Best Local Similarity 69.2%; Pred. No. 1e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3319 TTCAGGGGTTCCA 3331
Db 6 TTCTCAGGATCCA 18

RESULT 45
US-09-955-518-9
; Sequence 9, Application US/09955518
; Patent No. 6475740
; GENERAL INFORMATION:
; APPLICANT: Townes, Tim M.
; APPLICANT: Donze, David
; TITLE OF INVENTION: DELTA-ERYTHROID KRUPPEL-LIKE FACTORS AND
; TITLE OF INVENTION: METHODS OF USE
; FILE REFERENCE: 05118.0008U2
; CURRENT APPLICATION NUMBER: US/09/955,518
; CURRENT FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: 60/019,769
; PRIOR FILING DATE: 1996-06-14
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: fastSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:\ No. 6475740e =
; OTHER INFORMATION: synthetic construct
US-09-955-518-9

Query Match          33.0%; Score 6.6; DB 1; Length 21;
Best Local Similarity 69.2%; Pred. No. 1e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3319 TTCAGGGGTTCCA 3331
Db 6 TTCTCAGGATCCA 18

RESULT 46
US-08-859-954-130/C
; Sequence 130, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
US-08-859-954-130/C
```

NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 130:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-130

Query Match 32.0%; Score 6.4; DB 1; Length 8;
Best Local Similarity 87.5%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0;

QY 3314 AGGGAATC 3321
|||||
Db 8 AGGGAATC 1

RESULT 47
US-08-859-954-131
Sequence 131, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
SEQUENCING AND METHOD THEREOF
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954

FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 131:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-131

Query Match 32.0%; Score 6.4; DB 1; Length 8;
Best Local Similarity 87.5%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0;

QY 3325 GGTTCAG 3332
|||||
Db 1 GATTCAG 8

RESULT 48
US-08-859-954-270/c
Sequence 270, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
SEQUENCING AND METHOD THEREOF
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 270:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs

;
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-270

Query Match 32.0%; Score 6.4; DB 1; Length 8;
Best Local Similarity 87.5%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTC 3329
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Db 8 AGGAGTTC 1

RESULT 49
US-08-859-954-509/c
; Sequence 509, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 509:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-509

Query Match 32.0%; Score 6.4; DB 1; Length 8;
Best Local Similarity 87.5%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3320 TCAGGGGT 3327
||||| ||

Db 8 TCAGGAGT 1

RESULT 50
US-08-859-954-537/c
; Sequence 537, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 537:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-537

Query Match 32.0%; Score 6.4; DB 1; Length 8;
Best Local Similarity 87.5%; Pred. No. 5.1e+03;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3320 TCAGGGGT 3327
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Db 8 TCAGGTGT 1

Search completed: October 2, 2003, 15:40:43
Job time : 1 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 2, 2003, 15:32:18 ; Search time 0.001 Seconds
(without alignments)
17.800 Million cell updates/sec

Title: us-09-676-436-3

Perfect score: 20

Sequence: 1 agggattcaggggttcacg 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 0.5

Searched: 42 seqs, 445 residues

Total number of hits satisfying chosen parameters: 84

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 42 summaries

Database : rge.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	12.4	62.0	14	1	a42556		TOIG of: a42556
2	12.4	62.0	14	1	a88747		TOIG of: a88747
3	12.4	62.0	14	1	b0066260		TOIG of: b0066260
c 4	11	55.0	11	1	ax471613		TOIG of: ax471613
c 5	11	55.0	11	1	ax628456		TOIG of: ax628456
c 6	10	50.0	10	1	184475		TOIG of: 184475
c 7	10	50.0	11	1	ax626783		TOIG of: ax626783
c 8	9.4	47.0	11	1	ax470549		TOIG of: ax470549
c 9	9.4	47.0	11	1	ax623428		TOIG of: ax623428
c 10	9.4	47.0	11	1	ax629578		TOIG of: ax629578
c 11	9.4	47.0	11	1	ax630849		TOIG of: ax630849
c 12	9	45.0	10	1	e39766		TOIG of: e39766
c 13	9	45.0	10	1	ax471317		TOIG of: ax471317
c 14	9	45.0	11	1	ax624360		TOIG of: ax624360
c 15	9	45.0	11	1	ax625683		TOIG of: ax625683
c 16	9	45.0	11	1	ax625706		TOIG of: ax625706
c 17	9	45.0	11	1	ax626201		TOIG of: ax626201
c 18	9	45.0	11	1	ax631781		TOIG of: ax631781
c 19	8.4	42.0	10	1	ar303398		TOIG of: ar303398
c 20	8.4	42.0	10	1	ar303424		TOIG of: ar303424
c 21	8.4	42.0	10	1	ax112965		TOIG of: ax112965
c 22	8.4	42.0	10	1	ax152520		TOIG of: ax152520
c 23	8.4	42.0	10	1	ax153581		TOIG of: ax153581
c 24	8.4	42.0	10	1	ax153631		TOIG of: ax153631
c 25	8.4	42.0	10	1	ax301326		TOIG of: ax301326
c 26	8.4	42.0	10	1	ax667821		TOIG of: ax667821
c 27	8.4	42.0	10	1	ax667826		TOIG of: ax667826
c 28	8.4	42.0	10	1	ax667888		TOIG of: ax667888
c 29	8.4	42.0	10	1	bd007762		TOIG of: bd007762
c 30	8.4	42.0	10	1	bd007794		TOIG of: bd007794
c 31	8.4	42.0	10	1	bd083142		TOIG of: bd083142
c 32	8.4	42.0	10	1	bd083204		TOIG of: bd083204
c 33	8.4	42.0	10	1	bd083268		TOIG of: bd083268

ALIGNMENTS

RESULT 1

a42556 ; TOIG of: a42556 check: 7525 from: 1 to: 14

LOCUS A42556 14 bp DNA linear PAT 06-MAR-1997
DEFINITION Sequence 72 from Patent WO9502051.
ACCESSION A42556
VERSION A42556.1 GI:2298005
KEYWORDS .
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 14)
AUTHORS Schlingensiepen,G., Schlingensiepen,R., Schlingensiepen,K. and Brysch,W.
TITLE A PHARMACEUTICAL COMPOSITION COMPRISING ANTISENSE-NUCLEIC ACID FOR PREVENTION AND/OR TREATMENT OF NEURONAL INJURY, DEGENERATION AND CELL DEATH AND FOR THE TREATMENT OF NEOPLASMS
JOURNAL Patent: WO 9502051-A 72 19-JAN-1995;
COMMENT BIOGOSTIK GES FUER BIOMOLEKUL (DE)
Other publication AU 7345694 950206.
FEATURES
Location/Qualifiers
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source
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

BASE COUNT

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a42556 Length: 14 October 2, 2003 14:56 Type: N Check: 7525 ..

Query Match 62.0%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 2.3;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3318 ATTCAGGGGTTCCA 3331

Db 1 ATTCAGGGGTTCCA 14

RESULT 2

a88747 ; TOIG of: a88747 check: 7525 from: 1 to: 14

LOCUS A88747 14 bp DNA linear PAT 22-JAN-2000
DEFINITION Sequence 895 from Patent WO9833904.
ACCESSION A88747
VERSION A88747.1 GI:6737317
KEYWORDS .
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 14)
AUTHORS Brysch,W. and Schlingensiepen,K.
TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
JOURNAL Patent: WO 9833904-A 895 06-AUG-1998;
BIOGOSTIK GES (DE); BRYSCH WOLFGANG (DE)
FEATURES Location/Qualifiers

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; /organism="unidentified"
; /mol_type="genomic DNA"
; /db_xref="taxon:32644" 4 t
; BASE COUNT 3 a 4 c 3 g 4 t
; ORIGIN
;
; A88747 Length: 14 October 2, 2003 14:56 Type: N Check: 7525 ..
;
Query Match 62.0%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 2.3;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3318 ATTCAGGGTTCCA 3331
|||||
Db 1 ATTCAGCGTTCCA 14

RESULT 3
bd066260
; TOIG of: bd066260 check: 7525 from: 1 to: 14
;
; LOCUS BD066260 14 bp DNA linear PAT 27-AUG-2002
; DEFINITION An antisense oligonucleotide preparation method.
; ACCESSION BD066260
; VERSION BD066260.1 GI:22611863
; KEYWORDS JP 2001511000-A/895.
; SOURCE unidentified
; ORGANISM unidentified
;
; REFERENCE 1 (bases 1 to 14)
; AUTHORS Schlengersiepen,K.H. and Brysch,W.
; TITLE An antisense oligonucleotide preparation method
; JOURNAL Patent: JP 2001511000-A 895 07-AUG-2001;
; COMMENT BIOLOGISCHES GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
; OS Unknown
; PN JP 2001511000-A/895
; PD 07-AUG-2001
; PF 30-JAN-1998 JP 1998532533
; PR 31-JAN-1997 EP 97101531.8
; PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
; PC C12N15/11,C07H21/04,A61K31/70
; CC An antisense oligonucleotide preparation method FH Key
; LOCATION/Qualifiers
; FT source 1. .14
; FT Location/Qualifiers
; FEATURES
; source 1. .14
; /organism="unidentified"
; /mol_type="genomic DNA"
; /db_xref="taxon:32644" 4 t
; BASE COUNT 3 a 4 c 3 g 4 t
; ORIGIN
;
; BD066260 Length: 14 October 2, 2003 14:56 Type: N Check: 7525 ..
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Query Match 62.0%; Score 12.4; DB 1; Length 14;
Best Local Similarity 92.9%; Pred. No. 2.3;
Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3318 ATTCAGGGTTCCA 3331
|||||
Db 1 ATTCAGCGTTCCA 14

RESULT 4
ax471613/c
; TOIG of: ax471613 check: 4620 from: 1 to: 11
;
; LOCUS AX471613 11 bp DNA linear PAT 09-AUG-2002
; DEFINITION Sequence 1190 from Patent WO02053773.
; ACCESSION AX471613
; VERSION AX471613.1 GI:22206738
; KEYWORDS Homo sapiens (human)
; SOURCE Homo sapiens
; ORGANISM Homo sapiens
;
; REFERENCE 1
; AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
; TITLE Method for determining skin stress or skin ageing in vitro
; JOURNAL Patent: WO 02053773-A 1190 11-JUL-2002;
; KEYWORDS HENKEL KGAA (DE)
; FEATURES Location/Qualifiers
; source 1. .11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606" 2 t
; BASE COUNT 2 a 6 c 1 g 2 t
; ORIGIN
;
; AX471613 Length: 11 October 2, 2003 14:56 Type: N Check: 4620 ..
;
Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTCAGGG 3325
|||||
Db 11 GGGATTCAGGG 1

RESULT 5
ax628456/c
; TOIG of: ax628456 check: 4620 from: 1 to: 11
;
; LOCUS AX628456 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 5497 from Patent WO02053774.
; ACCESSION AX628456
; VERSION AX628456.1 GI:28456494
; KEYWORDS Homo sapiens (human)
; SOURCE Homo sapiens
; ORGANISM Homo sapiens
;
; REFERENCE 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 5497 11-JUL-2002;
; KEYWORDS Henkel Kommanditgesellschaft auf Aktien (DE)
; FEATURES Location/Qualifiers
; source 1. .11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606" 2 t
; BASE COUNT 2 a 6 c 1 g 2 t
; ORIGIN
;
; AX628456 Length: 11 October 2, 2003 14:56 Type: N Check: 4620 ..
;
Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTCAGGG 3325
|||||
Db 11 GGGATTCAGGG 1

RESULT 6
i84475/c
; TOIG of: i84475 check: 3874 from: 1 to: 10
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```

; LOCUS I84475 10 bp DNA linear PAT 04-APR-1998
; DEFINITION Sequence 25 from patent US 5695939.
; ACCESSION I84475
; VERSION I84475.1 GI:3021995
; KEYWORDS
; SOURCE Unknown.
; ORGANISM Unclassified.
; REFERENCE 1 (bases 1 to 10)
; AUTHORS Zhu,Q. and Lamb,C.J.
; TITLE Plant defense genes and plant defense regulatory elements
; JOURNAL Patent: US 5695939-A 25 09-DEC-1997;
; FEATURES Location/Qualifiers
; 1..10
; /organism="unknown"
; BASE COUNT 2 a 4 c 2 g 2 t
; ORIGIN
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; I84475 Length: 10 October 2, 2003 14:56 Type: N Check: 3874 ..
; I84475

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Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 8.9;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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no se

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QY 3322 AGGGTTCCA 3331
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Db 10 AGGGTTCCA 1

```

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RESULT 7
ax626783/c
; TOIG of: ax626783 check: 4483 from: 1 to: 11
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; LOCUS AX626783 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 3824 from Patent WO02053774.
; ACCESSION AX626783
; VERSION AX626783.1 GI:28454821
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 3824 11-JUL-2002;
; HENKEL Kommanditgesellschaft auf Aktien (DE)
; FEATURES Location/Qualifiers
; 1..11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606"
; BASE COUNT 2 a 6 c 2 g 1 t
; ORIGIN
;
; AX626783 Length: 11 October 2, 2003 14:56 Type: N Check: 4483 ..
; ax626783

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Query Match 50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 8.1;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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g.p.w

```

QY 3323 GGGTTCCAG 3332
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Db 11 GGGTTCCAG 2

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RESULT 8
ax470549/c
; TOIG of: ax470549 check: 4600 from: 1 to: 11
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; LOCUS AX470549 11 bp DNA linear PAT 09-AUG-2002
; DEFINITION Sequence 126 from Patent WO02053773.
; ACCESSION AX470549
; VERSION AX470549.1 GI:22205674
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE 1
; AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
; TITLE Method for determining skin stress or skin ageing in vitro
; JOURNAL Patent: WO 02053773-A 126 11-JUL-2002;
; HENKEL KGAA (DE)
; FEATURES Location/Qualifiers
; 1..11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606"
; BASE COUNT 2 a 7 c 0 g 2 t
; ORIGIN
;
; AX470549 Length: 11 October 2, 2003 14:56 Type: N Check: 4600 ..
; ax470549

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Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 10;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 3315 GGGATTCAGG 3325
|||||
Db 11 GGGATTCAGG 1

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```

RESULT 9
ax623428/c
; TOIG of: ax623428 check: 4600 from: 1 to: 11
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; LOCUS AX623428 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 469 from Patent WO02053774.
; ACCESSION AX623428
; VERSION AX623428.1 GI:28451369
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 469 11-JUL-2002;
; HENKEL Kommanditgesellschaft auf Aktien (DE)
; FEATURES Location/Qualifiers
; 1..11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606"
; BASE COUNT 2 a 7 c 0 g 2 t
; ORIGIN
;
; AX623428 Length: 11 October 2, 2003 14:56 Type: N Check: 4600 ..
; ax623428

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Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 10;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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```

QY 3315 GGGATTCAGG 3325
|||||
Db 11 GGGATTCAGG 1

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RESULT 10

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ax629578
; TOIG of: ax629578 check: 4860 from: 1 to: 11
; LOCUS AX629578 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 6619 from Patent WO02053774.
; ACCESSION AX629578
; VERSION AX629578.1 GI:28457616
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 6619 11-JUL-2002;
; HENKEL Kommanditgesellschaft auf Aktien (DE)
; FEATURES Location/Qualifiers
; source 1..11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606" 4 t
; BASE COUNT 1 a 3 c 3 g
; ORIGIN
; AX629578 Length: 11 October 2, 2003 14:56 Type: N Check: 4860
ax629578
Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 10;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3319 TTCAGGGGCTC 3329
|||||
Db 1 TTCAGGGGCTC 11
Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 10;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3319 TTCAGGGGCTC 3329
|||||
Db 1 TTCAGGGGCTC 11
RESULT 11
ax630849/c
; TOIG of: ax630849 check: 4600 from: 1 to: 11
; LOCUS AX630849 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 7890 from Patent WO02053774.
; ACCESSION AX630849
; VERSION AX630849.1 GI:28458889
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 7890 11-JUL-2002;
; HENKEL Kommanditgesellschaft auf Aktien (DE)
; FEATURES Location/Qualifiers
; source 1..11
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; /mol_type="genomic DNA"
; /db_xref="taxon:9606" 2 t
; BASE COUNT 2 a 7 c 0 g
; ORIGIN
; AX630849 Length: 11 October 2, 2003 14:56 Type: N Check: 4600
ax630849
Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 10;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3315 GGGATTGAGGG 3325
|||||
Db 11 GGGATTGAGGG 11
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RESULT 12
e39766
; TOIG of: e39766 check: 4052 from: 1 to: 10
; LOCUS E39766 10 bp DNA linear PAT 31-JAN-2002
; DEFINITION Genes with human dendritic cell expression.
; ACCESSION E39766
; VERSION E39766.1 GI:18621857
; KEYWORDS JP 2000279181-A/299.
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS Hashimoto,S., Matsushima,K. and Suzuki,T.
; TITLE Genes with human dendritic cell expression
; JOURNAL Patent: JP 2000279181-A 299 10-OCT-2000;
; SCIENCE & TECH AGENCY
; COMMENT OS Homo sapiens (human)
; PN JP 2000279181-A/299
; PD 10-OCT-2000
; PF 01-APR-1999 JP 1999095481
; PR
; PI SHINICHI HASHIMOTO,KOJI MATSUSHIMA,TAKUJI SUZUKI PC
; C12N15/09,C07K14/475,C07K16/18,C12N15/00
; CC
; FH Key Location/Qualifiers
; FT source 1..10
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606" 3 t
; FEATURES Location/Qualifiers
; source 1..10
; BASE COUNT 1 a 2 c 4 g
; ORIGIN
; E39766 Length: 10 October 2, 2003 14:56 Type: N Check: 4052
e39766
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3324 GGGTTCAG 3332
|||||
Db 1 GGGTTCAG 9
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3324 GGGTTCAG 3332
|||||
Db 1 GGGTTCAG 9
RESULT 13
ax471317
; TOIG of: ax471317 check: 4715 from: 1 to: 11
; LOCUS AX471317 11 bp DNA linear PAT 09-AUG-2002
; DEFINITION Sequence 894 from Patent WO02053773.
; ACCESSION AX471317
; VERSION AX471317.1 GI:22206442
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
; TITLE Method for determining skin stress or skin ageing in vitro
; JOURNAL Patent: WO 02053773-A 894 11-JUL-2002;
; HENKEL KGAA (DE)
; FEATURES Location/Qualifiers
; source 1..11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
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;
; BASE COUNT      2 a      /db_xref="taxon:9606"      2 t
; ORIGIN          2 c      5 g
;
; AX471317 Length: 11 October 2, 2003 14:56 Type: N Check: 4715 ..
;
; Query Match      45.0%; Score 9; DB 1; Length 11;
; Best Local Similarity 100.0%; Pred. No. 12;
; Matches 9; Conservative 0; Mismatches 0; Gaps 0;
;
QY 3324 GGGTCCAG 3332
Db 3 GGGTCCAG 11

RESULT 14
ax624360
; TOIG of: ax624360 check: 4819 from: 1 to: 11
;
; LOCUS          AX624360      11 bp      DNA      linear      PAT 21-FEB-2003
; DEFINITION      Sequence 1401 from Patent WO02053774.
; ACCESSION      AX624360
; VERSION        AX624360.1 GI:28452301
; KEYWORDS
; SOURCE          Homo sapiens (human)
; ORGANISM        Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE      1
; AUTHORS        Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE          Method for determining homeostasis of the skin
; JOURNAL        Patent: WO 02053774-A 1401 11-JUL-2002;
;                Henkel Kommanditgesellschaft auf Aktien (DE)
; FEATURES
;   source
;   1..11
;   /organism="Homo sapiens"
;   /mol_type="genomic DNA"
;   /db_xref="taxon:9606"
;
; BASE COUNT      1 a      3 c      3 g      4 t
; ORIGIN
;
; AX624360 Length: 11 October 2, 2003 14:56 Type: N Check: 4819 ..
;
; Query Match      45.0%; Score 9; DB 1; Length 11;
; Best Local Similarity 100.0%; Pred. No. 12;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 3325 GGTTCACG 3333
Db 2 GGTTCACG 10

RESULT 15
ax625683
; TOIG of: ax625683 check: 4678 from: 1 to: 11
;
; LOCUS          AX625683      11 bp      DNA      linear      PAT 21-FEB-2003
; DEFINITION      Sequence 2724 from Patent WO02053774.
; ACCESSION      AX625683
; VERSION        AX625683.1 GI:28453624
; KEYWORDS
; SOURCE          Homo sapiens (human)
; ORGANISM        Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE      1
; AUTHORS        Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE          Method for determining homeostasis of the skin
; JOURNAL        Patent: WO 02053774-A 2724 11-JUL-2002;
;                Henkel Kommanditgesellschaft auf Aktien (DE)
; FEATURES
;   Location/Qualifiers

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;
; source          1..11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606"
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; BASE COUNT      2 a      2 c      4 g      3 t
; ORIGIN
;
; AX625683 Length: 11 October 2, 2003 14:56 Type: N Check: 4678 ..
;
; Query Match      45.0%; Score 9; DB 1; Length 11;
; Best Local Similarity 100.0%; Pred. No. 12;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 3318 ATTCAGGG 3326
Db 2 ATTCAGGG 10

RESULT 16
ax625706/c
; TOIG of: ax625706 check: 4510 from: 1 to: 11
;
; LOCUS          AX625706      11 bp      DNA      linear      PAT 21-FEB-2003
; DEFINITION      Sequence 2747 from Patent WO02053774.
; ACCESSION      AX625706
; VERSION        AX625706.1 GI:28453647
; KEYWORDS
; SOURCE          Homo sapiens (human)
; ORGANISM        Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE      1
; AUTHORS        Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE          Method for determining homeostasis of the skin
; JOURNAL        Patent: WO 02053774-A 2747 11-JUL-2002;
;                Henkel Kommanditgesellschaft auf Aktien (DE)
; FEATURES
;   Location/Qualifiers
;   1..11
;   source
;   /organism="Homo sapiens"
;   /mol_type="genomic DNA"
;   /db_xref="taxon:9606"
;
; BASE COUNT      2 a      4 c      4 g      1 t
; ORIGIN
;
; AX625706 Length: 11 October 2, 2003 14:56 Type: N Check: 4510 ..
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; Query Match      45.0%; Score 9; DB 1; Length 11;
; Best Local Similarity 100.0%; Pred. No. 12;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 3323 GGGTTCCA 3331
Db 10 GGGTTCCA 2

RESULT 17
ax626201
; TOIG of: ax626201 check: 4715 from: 1 to: 11
;
; LOCUS          AX626201      11 bp      DNA      linear      PAT 21-FEB-2003
; DEFINITION      Sequence 3242 from Patent WO02053774.
; ACCESSION      AX626201
; VERSION        AX626201.1 GI:28454239
; KEYWORDS
; SOURCE          Homo sapiens (human)
; ORGANISM        Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE      1
; AUTHORS        Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE          Method for determining homeostasis of the skin

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JOURNAL Patent: WO 02053774-A 3242 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 2 a 2 c 5 g 2 t
ORIGIN
AX626201 Length: 11 October 2, 2003 14:56 Type: N Check: 4715 ..
ax626201
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3324 GGGTCCAG 3332
Db 3 GGGTCCAG 11
RESULT 18
ax631781
TOIG of: ax631781 check: 4819 from: 1 to: 11
LOCUS AX631781 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 8823 from Patent WO02053774.
ACCESSION AX631781
VERSION AX631781.1 GI:28459888
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 8823 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 1 a 3 c 3 g 4 t
ORIGIN
AX631781 Length: 11 October 2, 2003 14:56 Type: N Check: 4819 ..
ax631781
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3325 GGTCCAGC 3333
Db 2 GGTCCAGC 10
RESULT 19
ar303398
TOIG of: ar303398 check: 3880 from: 1 to: 10
LOCUS AR303398 10 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 123 from patent US 6544736.
ACCESSION AR303398
VERSION AR303398.1 GI:31692174
KEYWORDS Unknown.
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)

AUTHORS Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and Watahiki,M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 123 08-APR-2003;
FEATURES Location/Qualifiers
source 1..10
/organism="unknown"
BASE COUNT 3 a 1 c 4 g 2 t
ORIGIN
AR303398 Length: 10 October 2, 2003 14:56 Type: N Check: 3880 ..
ar303398
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3317 GATTCAGGG 3326
Db 1 GATTCAGAGG 10
RESULT 20
ar303424/c
TOIG of: ar303424 check: 3968 from: 1 to: 10
LOCUS AR303424 10 bp DNA linear PAT 12-JUN-2003
DEFINITION Sequence 149 from patent US 6544736.
ACCESSION AR303424
VERSION AR303424.1 GI:31692200
KEYWORDS Unknown.
SOURCE
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and Watahiki,M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 149 08-APR-2003;
FEATURES Location/Qualifiers
source 1..10
/organism="unknown"
BASE COUNT 2 a 4 c 1 g 3 t
ORIGIN
AR303424 Length: 10 October 2, 2003 14:56 Type: N Check: 3968 ..
ar303424
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3317 GATTCAGGG 3326
Db 10 GATTCAGAGG 1
RESULT 21
ax112965/c
TOIG of: ax112965 check: 3925 from: 1 to: 10
LOCUS AX112965 10 bp DNA linear PAT 01-MAY-2001
DEFINITION Sequence 12 from Patent WO0127267.
ACCESSION AX112965
VERSION AX112965.1 GI:13939400
KEYWORDS Mus sp.
SOURCE Mus sp.
ORGANISM Mus sp.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1
AUTHORS Adams,E., Waldmann,H., Cobbold,S. and Zelenika,D.
TITLE Genes differentially expressed in trl cells and their use in the

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; manufacture of immunoregulatory compositions
; JOURNAL Patent: WO 0127267-A 12 19-APR-2001;
; ISIS INNOVATION LIMITED (GB)
; FEATURES Location/Qualifiers
; source 1..10
; /organism="Mus sp."
; /mol_type="genomic DNA"
; /db_xref="taxon:10095" 2 t
; BASE COUNT 1 a 5 c 2 g
; ORIGIN
;
; AX112965 Length: 10 October 2, 2003 14:56 Type: N Check: 3925 ..
; ax112965
;
; Query Match 42.0%; Score 8.4; DB 1; Length 10;
; Best Local Similarity 90.0%; Pred. No. 17;
; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 3316 GGATTCAGGG 3325
; ||| |||||
; Db 10 GGACTCAGGG 1
;
; RESULT 22
; ax152520
; ; TOIG of: ax152520 check: 3920 from: 1 to: 10
; ;
; ; LOCUS AX152520 10 bp DNA linear PAT 22-JUN-2001
; ; DEFINITION Sequence 435 from Patent WO0138577.
; ; ACCESSION AX152520
; ; VERSION AX152520.1 GI:14534171
; ; KEYWORDS
; ; SOURCE Homo sapiens (human)
; ; ORGANISM Homo sapiens
; ; Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
; ; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; ;
; ; REFERENCE 1
; ; AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
; ; TITLE Human transcriptomes
; ; JOURNAL Patent: WO 0138577-A 435 31-MAY-2001;
; ; The Johns Hopkins University (US)
; ; FEATURES Location/Qualifiers
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; ; /organism="Homo sapiens"
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; QY 3322 AGGGTTCCA 3331
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; Db 1 AGGGCTTCCA 10
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; ; TOIG of: ax153581 check: 3920 from: 1 to: 10
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; ; LOCUS AX153581 10 bp DNA linear PAT 22-JUN-2001
; ; DEFINITION Sequence 1496 from Patent WO0138577.
; ; ACCESSION AX153581
; ; VERSION AX153581.1 GI:14535232
; ; KEYWORDS
; ; SOURCE Homo sapiens (human)
; ; ORGANISM Homo sapiens
; ; Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
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; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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; REFERENCE 1
; AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
; TITLE Human transcriptomes
; JOURNAL Patent: WO 0138577-A 1496 31-MAY-2001;
; The Johns Hopkins University (US)
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; Db 1 AGGGCTTCCA 10
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; ; LOCUS AX153631 10 bp DNA linear PAT 22-JUN-2001
; ; DEFINITION Sequence 1546 from Patent WO0138577.
; ; ACCESSION AX153631
; ; VERSION AX153631.1 GI:14535282
; ; KEYWORDS
; ; SOURCE Homo sapiens (human)
; ; ORGANISM Homo sapiens
; ; Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
; ; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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; ; REFERENCE 1
; ; AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
; ; TITLE Human transcriptomes
; ; JOURNAL Patent: WO 0138577-A 1546 31-MAY-2001;
; ; The Johns Hopkins University (US)
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; Db 1 AGGGCTTCCA 10
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; RESULT 25
; ax301326
; ; TOIG of: ax301326 check: 3920 from: 1 to: 10
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; ; LOCUS AX301326 10 bp DNA linear PAT 30-NOV-2001
; ; DEFINITION Sequence 40 from Patent WO0185941.
; ; ACCESSION AX301326
; ; VERSION AX301326.1 GI:17382409
; ; KEYWORDS
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; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS Versteeg,R. and Caron,H.N.
; TITLE Myc targets
; JOURNAL Patent: WO 0185941-A 40 15-NOV-2001;
; FEATURES Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
; LOCATION/Qualifiers
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QY 3322 AGGGGTTCCA 3331
Db 1 AGGGGTTCCA 10
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RESULT 26
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; TOIG of: ax667821 check: 3978 from: 1 to: 10
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; LOCUS AX667821 10 bp DNA linear PAT 26-MAR-2003
; DEFINITION Sequence 1270 from Patent WO0242459.
; ACCESSION AX667821
; VERSION AX667821.1 GI:29291358
; KEYWORDS
; SOURCE synthetic construct
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; artificial sequences.
; REFERENCE 1
; AUTHORS Liu,Q.
; TITLE Position dependent recognition of gnn nucleotide triplets by zinc
; JOURNAL Patent: WO 0242459-A 1270 30-MAY-2002;
; JOURNAL Sangamo Biosciences Inc. (US)
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Db 1 ATGGATTCAG 10
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; LOCUS AX667826 10 bp DNA linear PAT 26-MAR-2003
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; REFERENCE 1
; AUTHORS Liu,Q.
; TITLE Position dependent recognition of gnn nucleotide triplets by zinc
; JOURNAL Patent: WO 0242459-A 1275 30-MAY-2002;
; JOURNAL Sangamo Biosciences Inc. (US)
; FEATURES Location/Qualifiers
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; Best Local Similarity 90.0%; Pred. No. 17;
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Db 1 ATGGATTCAG 10
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RESULT 28
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; TOIG of: ax667888 check: 3978 from: 1 to: 10
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; LOCUS AX667888 10 bp DNA linear PAT 26-MAR-2003
; DEFINITION Sequence 1337 from Patent WO0242459.
; ACCESSION AX667888
; VERSION AX667888.1 GI:29291425
; KEYWORDS
; SOURCE synthetic construct
; ORGANISM synthetic construct
; artificial sequences.
; REFERENCE 1
; AUTHORS Liu,Q.
; TITLE Position dependent recognition of gnn nucleotide triplets by zinc
; JOURNAL Patent: WO 0242459-A 1337 30-MAY-2002;
; JOURNAL Sangamo Biosciences Inc. (US)
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QY 3314 AGGGATTCAG 3323
Db 1 ATGGATTCAG 10
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; PR KOJI MATSUSHIMA,SHINICHI HASHIMOTO,TAKUJI SUZUKI PC
; C12N15/09,C07K14/47,C07K16/18,G01N33/50,G01N33/53//A61K45/00,PC
; A61P29/00,
; PC A61P31/00,C12P21/08,C12N15/00
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QY 3316 GGATTCAGGG 3325
Db 10 GGATCCAGGG 1

RESULT 31
bd083142 check: 3920 from: 1 to: 10
; TOIG of: bd083142
; LOCUS BD083142 10 bp DNA linear PAT 27-AUG-2002
; DEFINITION Human matured/activated dendritic cell expression genes.
; ACCESSION BD083142
; VERSION BD083142.1 GI:22628752
; KEYWORDS JP 2001327293-A/63.
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
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; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1 (bases 1 to 10)
; AUTHORS Matsushima,K., Hashimoto,S., Suzuki,T. and Nagai,S.
; TITLE Human matured/activated dendritic cell expression genes
; JOURNAL Patent: JP 2001327293-A 63 27-NOV-2001;
; JAPAN SCIENCE AND TECHNOLOGY CORP
; COMMENT OS Homo sapiens (human)
; PN JP 2001327293-A/63
; PD 22-NOV-2001
; PF 22-NOV-2000 JP 2000150562
; PI KOJI MATSUSHIMA,SHINICHI HASHIMOTO,TAKUJI SUZUKI,SHIGENORI P I
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; FH Key Location/Qualifiers.
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QY 3322 AGGGGTCCA 3331

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Db          1 AGGGCTTCCA 10

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; DEFINITION     Human matured/activated dendritic cell expression genes.
; ACCESSION      BD083204
; VERSION        BD083204.1 GI:22628814
; KEYWORDS       JP 2001327293-A/125.
; SOURCE         Homo sapiens (human)
; ORGANISM       Homo sapiens
;
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
;
; REFERENCE      1 (bases 1 to 10)
; AUTHORS        Matsushima,K., Hashimoto,S., Suzuki,T. and Nagai,S.
; TITLE          Human matured/activated dendritic cell expression genes
; JOURNAL        Patent: JP 2001327293-A 125 27-NOV-2001;
; COMMENT        JAPAN SCIENCE AND TECHNOLOGY CORP
; OS             Homo sapiens (human)
; PN             JP 2001327293-A/125
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; PF             22-MAY-2000 JP 2000150562
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; QY            3319 TTCAGGGGTT 3328
; Db            10 TCCAGGGGTT 1
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; RESULT 33
bd083268/c
; TOIG of: bd083268 check: 3919 from: 1 to: 10
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; LOCUS          BD083268          10 bp      DNA      linear      PAT 27-AUG-2002
; DEFINITION     Human matured/activated dendritic cell expression genes.
; ACCESSION      BD083268
; VERSION        BD083268.1 GI:22628878
; KEYWORDS       JP 2001327293-A/189.
; SOURCE         Homo sapiens (human)
; ORGANISM       Homo sapiens
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; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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; REFERENCE      1 (bases 1 to 10)
; AUTHORS        Matsushima,K., Hashimoto,S., Suzuki,T. and Nagai,S.
; TITLE          Human matured/activated dendritic cell expression genes
; JOURNAL        Patent: JP 2001327293-A 189 27-NOV-2001;
; COMMENT        JAPAN SCIENCE AND TECHNOLOGY CORP
; OS             Homo sapiens (human)
; PN             JP 2001327293-A/189
; PD             27-NOV-2001
; PF             22-MAY-2000 JP 2000150562
; PI             KOJI MATSUSHIMA,SHINICHI HASHIMOTO,TAKUJI SUZUKI,SHIGENORI PI
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; Best Local Similarity 90.0%; Pred. No. 17;
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; QY            3319 TTCAGGGGTT 3328
; Db            10 TCCAGGGGTT 1
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; RESULT 34
bd083268/c
; TOIG of: e39536 check: 3920 from: 1 to: 10
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; LOCUS          E39536            10 bp      DNA      linear      PAT 31-JAN-2002
; DEFINITION     Genes with human dendritic cell expression.
; ACCESSION      E39536
; VERSION        E39536.1 GI:18621627
; KEYWORDS       JP 2000279181-A/69.
; SOURCE         Homo sapiens (human)
; ORGANISM       Homo sapiens
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; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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; REFERENCE      1 (bases 1 to 10)
; AUTHORS        Hashimoto,S., Matsushima,K. and Suzuki,T.
; TITLE          Genes with human dendritic cell expression
; JOURNAL        Patent: JP 2000279181-A 69 10-OCT-2000;
; COMMENT        SCIENCE & TECH AGENCY
; OS             Homo sapiens (human)
; PN             JP 2000279181-A/69
; PD             10-OCT-2000
; PF             01-APR-1999 JP 1999095481
; PI             SHINICHI HASHIMOTO,KOJI MATSUSHIMA,TAKUJI SUZUKI PC
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; FH             Key Location/Qualifiers
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RESULT 35
e54753      ; TOIG of: e54753  check: 3920  from: 1  to: 10
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; DEFINITION Human normal liver cell expression genes.
; ACCESSION  E54753
; VERSION    E54753.1  GI:22556236
; KEYWORDS  JP 2001211883-A/105.
; SOURCE    Homo sapiens (human)
; ORGANISM  Homo sapiens
;            Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE  1 (bases 1 to 10)
; AUTHORS   Matsushima,K., Hashimoto,S., Kaneko,S. and Yamashita,T.
; TITLE     Human normal liver cell expression genes
; JOURNAL   Patent: JP 2001211883-A 105 07-AUG-2001;
;           SCIENCE & TECH AGENCY
; COMMENT   OS Homo sapiens (human)
;           PN JP 2001211883-A/105
;           PD 07-AUG-2001
;           PF 31-JAN-2000 JP 2000023170
;           PI KOJI MATSUSHIMA,SHINICHI HASHIMOTO,SHUICHI KANEKO,TARO PI
;           YAMASHITA
;           PC C12N15/09,C07K16/18,C12P21/02,C12N15/00
;           CC
;           FH Key Location/Qualifiers.
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; ORIGIN
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QY 3322 AGGGGTTCCA 3331
Db 1 AGGGGTTCCA 10

RESULT 36
ar017955
; TOIG of: ar017955  check: 4214  from: 1  to: 10
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; LOCUS      AR017955      10 bp  DNA      linear      PAT 05-DEC-1998
; DEFINITION Sequence 20 from patent US 5780273.
; ACCESSION  AR017955
; VERSION    AR017955.1  GI:3973558
; KEYWORDS  .
; SOURCE    Unknown.
; ORGANISM  Unknown.
; REFERENCE  1 (bases 1 to 10)
; AUTHORS   Burg,J.Lawrence.
; TITLE     Insertion elements and amplifiable nucleic acids
; JOURNAL   Patent: US 5780273-A 20 14-JUL-1998;
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; ORIGIN
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Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3321 CAGGGGTT 3328
Db 1 CAGGGGTT 8

RESULT 37
ar303474
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; DEFINITION Sequence 199 from patent US 6544736
; ACCESSION  AR303474
; VERSION    AR303474.1  GI:31692250
; KEYWORDS  .
; SOURCE    Unknown.
; ORGANISM  Unknown.
; REFERENCE  1 (bases 1 to 10)
; AUTHORS   Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and
;           Watahiki,M.
; TITLE     Method for synthesizing cDNA from mRNA sample
; JOURNAL   Patent: US 6544736-A 199 08-APR-2003;
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ar303474
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Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3317 GATTGAGG 3324
Db 3 GATTGAGG 10

RESULT 38
ar303528/c
; TOIG of: ar303528  check: 3871  from: 1  to: 10
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; LOCUS      AR303528      10 bp  DNA      linear      PAT 12-JUN-2003
; DEFINITION Sequence 253 from patent US 6544736.
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; VERSION    AR303528.1  GI:31692304
; KEYWORDS  .
; SOURCE    Unknown.
; ORGANISM  Unknown.
; REFERENCE  1 (bases 1 to 10)
; AUTHORS   Shimamoto,A., Furuichi,Y., Shibata,Y., Funaki,H., Ohara,E. and
;           Watahiki,M.
; TITLE     Method for synthesizing cDNA from mRNA sample
; JOURNAL   Patent: US 6544736-A 253 08-APR-2003;
; FEATURES   Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      3317 GATTACGG 3324
Db      8 GATTACGG 1

RESULT 39
ax152673
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; DEFINITION Sequence 588 from Patent WO0138577.
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; VERSION    AX152673.1 GI:14534324
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
;            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS   Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
; TITLE     Human transcriptomes
; JOURNAL   Patent: WO 0138577-A 588 31-MAY-2001;
;           The Johns Hopkins University (US)
; FEATURES   Location/Qualifiers
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ax152673
Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3319 TTCAGGGG 3326
Db      2 TTCAGGGG 9

RESULT 40
ax301451
; TOIG of: ax301451 check: 3877 from: 1 to: 10
; LOCUS      AX301451          10 bp  DNA      linear      PAT 30-NOV-2001
; DEFINITION Sequence 165 from Patent WO0185941.
; ACCESSION  AX301451
; VERSION    AX301451.1 GI:17392534
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
;            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS   Versteeg,R. and Caron,H.N.
; TITLE     Myc targets
; JOURNAL   Patent: WO 0185941-A 165 15-NOV-2001;
;           Academisch ziekenhuis bij de Universiteit van Amsterdam (NL)
; FEATURES   Location/Qualifiers
;            source
;            1..10
;            /organism="Homo sapiens"
;            /mol_type="genomic DNA"
;            /db_xref="taxon:9606"
; BASE COUNT 2 a 1 c 4 g 3 t
; ORIGIN
;
; AX301451 Length: 10 October 2, 2003 14:56 Type: N Check: 3877 ..
ax301451
Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3319 TTCAGGGG 3326
Db      2 TTCAGGGG 9

RESULT 41
ax301542
; TOIG of: ax301542 check: 3877 from: 1 to: 10
; LOCUS      AX301542          10 bp  DNA      linear      PAT 30-NOV-2001
; DEFINITION Sequence 256 from Patent WO0185941.
; ACCESSION  AX301542
; VERSION    AX301542.1 GI:17382625
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
;            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
; REFERENCE 1
; AUTHORS   Versteeg,R. and Caron,H.N.
; TITLE     Myc targets
; JOURNAL   Patent: WO 0185941-A 256 15-NOV-2001;
;           Academisch ziekenhuis bij de Universiteit van Amsterdam (NL)
; FEATURES   Location/Qualifiers
;            source
;            1..10
;            /organism="Homo sapiens"
;            /mol_type="genomic DNA"
;            /db_xref="taxon:9606"
; BASE COUNT 2 a 1 c 4 g 3 t
; ORIGIN
;
; AX301542 Length: 10 October 2, 2003 14:56 Type: N Check: 3877 ..
ax301542
Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3319 TTCAGGGG 3326
Db      2 TTCAGGGG 9

RESULT 42
ax719148
; TOIG of: ax719148 check: 3981 from: 1 to: 10
; LOCUS      AX719148          10 bp  DNA      linear      PAT 15-APR-2003
; DEFINITION Sequence 20 from Patent EP1295950.
; ACCESSION  AX719148
; VERSION    AX719148.1 GI:29891635
; KEYWORDS
; SOURCE     Cucumis sativus (cucumber)
; ORGANISM   Cucumis sativus
;            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
;            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
;            rosids; eurosids I; Cucurbitales; Cucurbitaceae; Cucumis.
; REFERENCE 1
; AUTHORS   Langeveld,S.A., van der Kop,D.A. and de Boer,A.D.
; TITLE     Expression profiling
; JOURNAL   Patent: EP 1295950-A 20 26-MAR-2003;
;           GT Diagnostics B.V. (NL)
; FEATURES   Location/Qualifiers
;            source
;            1..10
;            /organism="Cucumis sativus"
;            /mol_type="genomic DNA"
;            /db_xref="taxon:3659"
; misc_feature 1..10
;            /note="Part of template RPL10 = sequence to analyze"
; BASE COUNT 2 a 1 c 4 g 3 t

```

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; ORIGIN
; AX719148 Length: 10 October 2, 2003 14:56 Type: N Check: 3981 ..
ax719148

Query Match      40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTCA 3322 .
   |||||
Db 3 GGGATTCA 10

Search completed: October 2, 2003, 15:32:19
Job time : 1 secs
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Thu Oct 2 16:05:20 2003

us-09-676-436-3_copy_3314_3333.rng

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: October 2, 2003, 15:35:57 ; Search time 0.001 Seconds

(without alignments)

36.640 Million cell updates/sec

Title: us-09-676-436-3

Perfect score: 20

Sequence: 1 agggattcaggggttcagc 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 0.5

Searched: 89 seqs, 916 residues

Total number of hits satisfying chosen parameters: 178

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 89 summaries

Database : rng.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	20	100.0	20	1 aad37150	TOIG of: aad37150
2	12.4	62.0	14	1 aag83338	TOIG of: aag83338
3	11	55.0	11	1 abq87435	TOIG of: abq87435
4	11	55.0	11	1 abv67711	TOIG of: abv67711
5	10	50.0	10	1 aaz83859	TOIG of: aaz83859
6	10	50.0	10	1 abv66038	TOIG of: abv66038
7	9.4	47.0	11	1 aal42209	TOIG of: aal42209
8	9.4	47.0	11	1 abq86371	TOIG of: abq86371
9	9.4	47.0	11	1 abv62883	TOIG of: abv62883
10	9.4	47.0	11	1 abv68833	TOIG of: abv68833
11	9.4	47.0	11	1 abv70104	TOIG of: abv70104
12	9	45.0	10	1 aac74212	TOIG of: aac74212
13	9	45.0	10	1 aaf42053	TOIG of: aaf42053
14	9	45.0	10	1 aal48142	TOIG of: aal48142
15	9	45.0	10	1 aaz83465	TOIG of: aaz83465
16	9	45.0	10	1 aaz84256	TOIG of: aaz84256
17	9	45.0	10	1 abk64082	TOIG of: abk64082
18	9	45.0	10	1 aaf30844	TOIG of: aaf30844
19	9	45.0	11	1 abq87139	TOIG of: abq87139
20	9	45.0	11	1 abv63615	TOIG of: abv63615
21	9	45.0	11	1 abv64938	TOIG of: abv64938
22	9	45.0	11	1 abv64961	TOIG of: abv64961
23	9	45.0	11	1 abv65456	TOIG of: abv65456
24	9	45.0	11	1 abv71036	TOIG of: abv71036
25	8.4	42.0	10	1 aas56134	TOIG of: aas56134
26	8.4	42.0	10	1 aas56289	TOIG of: aas56289
27	8.4	42.0	10	1 aas56391	TOIG of: aas56391
28	8.4	42.0	10	1 aac73982	TOIG of: aac73982
29	8.4	42.0	10	1 aaf36987	TOIG of: aaf36987
30	8.4	42.0	10	1 aaf39730	TOIG of: aaf39730
31	8.4	42.0	10	1 aaf41037	TOIG of: aaf41037
32	8.4	42.0	10	1 aah19941	TOIG of: aah19941
33	8.4	42.0	10	1 aah32665	TOIG of: aah32665

c	34	8.4	42.0	10	1 aah32697	TOIG of: aah32697
	35	8.4	42.0	10	1 aah63595	TOIG of: aah63595
	36	8.4	42.0	10	1 aah64656	TOIG of: aah64656
	37	8.4	42.0	10	1 aah64706	TOIG of: aah64706
c	38	8.4	42.0	10	1 aai67389	TOIG of: aai67389
c	39	8.4	42.0	10	1 aas19576	TOIG of: aas19576
	40	8.4	42.0	10	1 aas57315	TOIG of: aas57315
c	41	8.4	42.0	10	1 aav35904	TOIG of: aav35904
c	42	8.4	42.0	10	1 aaz83394	TOIG of: aaz83394
c	43	8.4	42.0	10	1 aaz83550	TOIG of: aaz83550
c	44	8.4	42.0	10	1 aaz84309	TOIG of: aaz84309
c	45	8.4	42.0	10	1 aaz84773	TOIG of: aaz84773
c	46	8.4	42.0	10	1 aaz85387	TOIG of: aaz85387
c	47	8.4	42.0	10	1 aaz85591	TOIG of: aaz85591
c	48	8.4	42.0	10	1 aaz85716	TOIG of: aaz85716
c	49	8.4	42.0	10	1 aab06128	TOIG of: aab06128
c	50	8.4	42.0	10	1 abk23413	TOIG of: abk23413
c	51	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	52	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	53	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	54	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	55	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	56	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	57	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	58	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	59	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	60	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	61	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	62	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	63	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	64	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	65	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	66	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	67	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	68	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	69	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	70	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	71	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	72	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	73	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	74	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	75	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	76	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	77	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	78	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	79	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	80	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	81	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	82	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	83	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	84	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	85	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	86	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	87	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	88	8.4	42.0	10	1 abk85685	TOIG of: abk85685
c	89	7.4	37.0	9	1 aav04711	TOIG of: aav04711

ALIGNMENTS

RESULT 1
aad37150/c
; TOIG of: aad37150 check: 4945 from: 1 to: 20
; ID AAD37150 standard; DNA; 20 BP.
; XX
; AC AAD37150;
; XX
; DT 21-AUG-2002 (first entry)
; XX
; DE Human MEKK4 antisense oligonucleotide, ISIS #123085.
; XX

KW Human; MEKK4 modulation; mitogen-activated protein kinase kinase 4; WTK1;
KW MAP3K4; MAP three kinase 1; MAP/ERK kinase kinase 4; MAPKKK4; cytoskeletal;
KW prolylase; immunological; hyperproliferative disorder; cancer; therapy;
KW antisense; inflammatory; phosphorothioate backbone; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone"
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl nucleotides"
FT modified_base 2
FT /tag= d
FT /mod_base= m5c
FT modified_base 8
FT /tag= e
FT /mod_base= m5c
FT modified_base 9
FT /tag= f
FT /mod_base= m5c
FT modified_base 10
FT /tag= g
FT /mod_base= m5c
FT modified_base 11
FT /tag= h
FT /mod_base= m5c
FT modified_base 17
FT /tag= i
FT /mod_base= m5c
FT modified_base 18
FT /tag= j
FT /mod_base= m5c
FT modified_base 19
FT /tag= k
FT /mod_base= m5c
XX
XX WO200227033-A1.
XX
XX 04-APR-2002.
XX
XX 28-SEP-2001; 2001WO-US30549.
XX
XX 29-SEP-2000; 2000US-0676436.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Ward DT, Gaarde WA, Monia BP, Wyatt JR;
XX WPI; 2002-416486/44.
XX
XX New antisense compound targeted to nucleic acid encoding
XX mitogen-activated protein kinase 4, useful for treating immunologic
XX disorder, inflammatory disorder or cancer
XX
XX Claim 3; Page 92; 132pp; English.
XX
XX The present invention relates to antisense compounds, compositions and
XX methods for modulating the expression of MEKK4 (also referred as mitogen-
XX activated protein kinase kinase 4; MAP3K4; MAP three kinase 1; MAP/ERK
XX kinase kinase 4; MAPKKK4; WTK1). The antisense oligos are useful for
XX inhibiting the expression of MEKK4 in cells or tissues. They are also
XX useful for treating an animal having a disease or condition associated
XX with MEKK4 such as immunological, inflammatory, hyperproliferative

disorder or cancer. Sequences of the invention are also useful for
diagnostics, therapeutics, prophylaxis and as research reagents and kits.
They are also useful in antisense therapy. The present sequence is an
antisense oligonucleotide targeted to human MEKK4 DNA. This sequence
is used in the exemplification of the invention.
XX
SQ Sequence 20 BP; 4 A; 8 C; 4 G; 4 T; 0 other;
AAD37150 Length: 20 October 2, 2003 14:57 Type: N Check: 4945 ..
aad37150
Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. NO. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3314 AGGATTTCAGGGTTCAGC 3333
Db 20 AGGATTTCAGGGTTCAGC 1
|||||
RESULT 2
aaq83338
TOIG of: aaq83338 check: 7525 from: 1 to: 14
ID AAQ83338 standard; DNA; 14 BP.
XX
AC AAQ83338;
XX
DT 25-MAR-2003 (updated)
DT 20-SEP-1995 (first entry)
XX
DE jub-B antisense oligonucleotide.
XX
KW c-jun; c-fos; jun-B; neuronal injury; cell death; neoplasm;
KW antisense; phosphorothioate; ss.
XX
OS Synthetic.
XX
PN WO9502051-A2.
XX
PD 19-JAN-1995.
XX
PF 06-JUL-1994; 94WO-EP02218.
XX
PR 10-JUL-1993; 93EP-0111059.
XX
PA (BIOG-) BIOGNOSTIK GES BIOMOLEKULARE DIAGNOSTIK.
XX
XX Brysch W, Schlingensiepen G, Schlingensiepen K, Schlingensiepen R;
XX WPI; 1995-066896/09.
XX
XX Use of antisense c-jun, c-fos or jun-B nucleic acids - for
XX preventing and treating neuronal injury, degeneration, cell death
XX and/or neoplasms
XX
XX Claim 2; Page 40; 86pp; English.
XX
XX Antisense nucleic acid hybridising with an area of the mRNA and/or
XX DNA comprising the genes c-jun, jun-B or c-fos, expression of which
XX plays a causal role in neuronal injury, degeneration, cell death and/
XX or neoplasms, can be used to prevent and treat such conditions.
XX c-jun antisense sequences are described in AAQ83267-321 and AAQ83440-43;
XX and c-fos antisense sequences are described in AAQ83322-63 and AAQ83444-45;
XX jun-B antisense sequences are described in AAQ83364-439 and
XX AAQ83446-51. Preferably the antisense sequences are phosphorothioate
XX oligonucleotides since these are not destroyed as fast by endogenous
XX factors as naturally occurring molecules.
XX (Updated on 25-MAR-2003 to correct PN field.)
XX
XX Sequence 14 BP; 3 A; 4 C; 3 G; 4 T; 0 other;
XX
XX AAQ83338 Length: 14 October 2, 2003 14:57 Type: N Check: 7525 ..

aaq83338

Query Match 62.0%; Score 12.4; DB 1; Length 14;
 Best Local Similarity 92.9%; Pred. No. 4.2;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3318 ATTGAGGGTTCCA 3331
 |||||
 Db 1 ATTGAGGGTTCCA 14

RESULT 3

abq87435/c
 ; TOIG of: abq87435 check: 4620 from: 1 to: 11

; ID ABQ87435 standard; cDNA; 11 BP.
 ; AC ABQ87435;
 ; XX
 ; DT 10-SEP-2002 (first entry)
 ; XX
 ; DE Human skin stress/ageing related EST-SEQ ID NO 1190.
 ; XX
 ; KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
 ; XX
 ; OS Homo sapiens.
 ; XX
 ; PN WO200253773-A2.
 ; XX
 ; PD 11-JUL-2002.
 ; XX
 ; PF 20-DEC-2001; 2001WO-EP15178.
 ; XX
 ; PR 03-JAN-2001; 2001DE-1000121.
 ; XX
 ; PA (HENK) HENKEL KGAA.
 ; XX
 ; PI Petersohn D, Conradt M, Hofmann K;
 ; XX
 ; DR WPI; 2002-528865/56.
 ; XX
 ; PT Identifying genes involved in skin stress and ageing, useful e.g. in
 ; PT screening for cosmetic or therapeutic agents, based on differential
 ; PT gene expression -
 ; XX
 ; PS Claim 8; Page 86; 325pp; German.
 ; CC
 ; CC The invention relates to identifying (M1) genes in vitro that, in humans
 ; CC or animals, are important for skin ageing and/or skin stress by serial
 ; CC analysis of gene expression between mixtures of transcribed and
 ; CC optionally translated, genetically encoded factors (A) obtained from
 ; CC young and aged skin, to identify that genes that show strong differential
 ; CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
 ; CC useful for: identifying markers of skin ageing and/or stress; determining
 ; CC skin ageing and/or stress; and identifying or determining the effects of
 ; CC pharmaceutical or cosmetic agents for control of skin ageing. The present
 ; CC sequence is one of a group of human skin ageing/stress related expressed
 ; CC sequence tags (ABQ86246-ABQ87680) of the invention.
 ; XX
 ; SQ Sequence 11 BP; 2 A; 6 C; 1 G; 2 T; 0 other;
 ; ; ABQ87435 Length: 11 October 2, 2003 14:57 Type: N Check: 4620 ..
 ; abq87435

Query Match 55.0%; Score 11; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 9.6;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTCAGGG 3325
 |||||
 Db 11 GGGATTCAGGG 1

RESULT 4

abv67711/c
 ; TOIG of: abv67711 check: 4620 from: 1 to: 11

; ID ABV67711 standard; cDNA; 11 BP.
 ; AC ABV67711;
 ; XX
 ; DT 21-OCT-2002 (first entry)
 ; XX
 ; DE Human skin EST 5497.
 ; XX
 ; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
 ; KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 ; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 ; XX
 ; OS Homo sapiens.
 ; XX
 ; PN WO200253774-A2.
 ; XX
 ; PD 11-JUL-2002.
 ; XX
 ; PF 20-DEC-2001; 2001WO-EP15179.
 ; XX
 ; PR 03-JAN-2001; 2001DE-1000127.
 ; XX
 ; PA (HENK) HENKEL KGAA.
 ; XX
 ; PI Petersohn D, Conradt M, Hofmann K;
 ; XX
 ; DR WPI; 2002-590638/63.
 ; XX
 ; PT In vitro identification of skin-expressed genes, useful for determining
 ; PT homeostasis and identifying cosmetic or pharmaceutical agents against
 ; PT e.g. skin cancer -
 ; XX
 ; PS Disclosure; Page 177; 1345pp; German.
 ; XX
 ; CC The invention relates to in vitro identification (M1) of genes expressed
 ; CC in the skin of humans or animals by subjecting a mixture of genetically
 ; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 ; CC so as to identify skin-expressed genes and quantify their expression.
 ; CC (M1) is useful for identifying genes involved in skin homeostasis; to
 ; CC determine skin homeostasis and to test agent (A) that maintains or
 ; CC promotes skin homeostasis or that can be used for treating skin
 ; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 ; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 ; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 ; CC skin. The present sequence is that of a human expressed sequence tag
 ; CC (EST) of the invention.
 ; XX
 ; SQ Sequence 11 BP; 2 A; 6 C; 1 G; 2 T; 0 other;
 ; ; ABV67711 Length: 11 October 2, 2003 14:57 Type: N Check: 4620 ..
 ; abv67711

Query Match 55.0%; Score 11; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 9.6;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTCAGGG 3325
 |||||
 Db 11 GGGATTCAGGG 1

RESULT 5

aaaz83859/c
 ; TOIG of: aaaz83859 check: 3883 from: 1 to: 10

; ID AAZ83859 standard; DNA; 10 BP.
 ; XX
 ; AC AAZ83859;
 ; XX

```

; DT 07-APR-2000 (first entry)
; DE Metastatic breast tumour cell upregulated transcript tag #3093.
; XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX Homo sapiens.
; XX WO9965928-A2.
; XX PD 23-DEC-1999.
; XX PF 18-JUN-1999; 99WO-US13647.
; XX PR 19-JUN-1998; 98US-0089853.
; XX PR 19-JUN-1998; 98US-0089997.
; XX PR 19-JUN-1998; 98US-0090039.
; XX PR 19-JUN-1998; 98US-0090040.
; XX PR 19-JUN-1998; 98US-0090041.
; XX (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX Roberts BL, Shankara S;
; PI WPI; 2000-106079/09.
; XX Isolated polynucleotides differentially expressed between metastatic
; PT and non-metastatic breast cancer cells, useful for diagnosis,
; PT prevention and treatment of cancer -
; XX Claim 1; Page 141; 219pp; English.
; XX AA280767 to AA283941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells)
; CC AA283942 to AA286677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 other;
; AA283859 Length: 10 October 2, 2003 14:57 Type: N Check: 3883 ..
aaz83859
Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3316 GGATTCAGGG 3325
DB 10 GGATTCAGGG 1
RESULT 6

```

```

abv66038/c
; TOIG Of: abv66038 check: 4483 from: 1 to: 11
; ID ABV66038 standard; cDNA; 11 BP.
; XX
; AC ABV66038;
; XX
; DT 21-OCT-2002 (first entry)
; DE Human skin EST 3824.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
; KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX WO200253774-A2.
; XX PD 11-JUL-2002.
; XX PF 20-DEC-2001; 2001WO-EP15179.
; XX PR 03-JAN-2001; 2001DE-1000127.
; XX (HENK ) HENKEL KGAA.
; XX Petersohn D, Conradt M, Hofmann K;
; PI WPI; 2002-590638/63.
; XX In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer -
; XX Disclosure; Page 131; 1345pp; German.
; XX The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; Basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX Sequence 11 BP; 2 A; 6 C; 2 G; 1 T; 0 other;
; ABV66038 Length: 11 October 2, 2003 14:57 Type: N Check: 4483 ..
abv66038
Query Match 50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3323 GGGGTTCAG 3332
DB 11 GGGGTTCAG 2
RESULT 7
aal42209/c
; TOIG Of: aal42209 check: 4662 from: 1 to: 11
; ID AAL42209 standard; RNA; 11 BP.
; XX
; AC AAL42209;
; XX
; DT 28-NOV-2002 (first entry)

```


PS Claim 24; Page 251; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed in the skin of humans or animals by subjecting a mixture of genetically encoded factors from skin, to serial analysis of gene expression (SAGE) so as to identify skin-expressed genes and quantify their expression.

CC (M1) is useful for identifying genes involved in skin homeostasis; to determine skin homeostasis and to test agent (A) that maintains or promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; rosacea; melanoma; basal cell carcinoma; and carcinoma of the skin. The present sequence is that of a human expressed sequence tag (EST) of the invention.

XX

SQ Sequence 11 BP; 2 A; 7 C; 0 G; 2 T; 0 other;

ABV70104 Length: 11 October 2, 2003 14:57 Type: N Check: 4600 ..

abv70104

Query Match 47.0%; Score 9.4; DB 1; Length 11;

Best Local Similarity 90.9%; Pred. No. 18;

Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3315 GGGATTGAGG 3325

DB 11 GGGATTGAGG 1

RESULT 12

aac74212

TOIG of: aac74212 check: 4052 from: 1 to: 10

ID AAC74212 standard; cDNA; 10 BP.

XX

AC AAC74212;

XX

DT 02-FEB-2001 (first entry)

XX

DE Human monocyte and dendritic cell expressed gene oligonucleotide #299.

XX

KW Human; dendritic cell; monocyte; immune system; diagnosis; cancer;

KW autoimmune disease; tumour; ss.

XX

OS Homo sapiens.

XX

PN W0200060074-A1.

XX

PD 12-OCT-2000.

XX

PF 30-MAR-2000; 2000WO-JP02019.

XX

PR 01-APR-1999; 99JP-0095481.

XX

PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.

XX

PI Hashimoto S, Matsushima K, Suzuki T;

XX

DR WPI; 2000-619172/59.

XX

PT Groups of genes expressed in human dendritic cells at a greater or lesser extent than in monocytes for investigation and diagnosis of autoimmune disease and tumors

XX

PS Claim 19; Page 16; 95pp; Japanese.

XX

CC The present invention describes a group of genes consisting of 100 genes which are highly expressed in human dendritic cells; a group of genes which are expressed at a higher frequency in human dendritic cells than in human monocytes; and a group of genes which are expressed at lower frequency in human dendritic cells than in human monocytes. Each group of genes are characterised in that cDNAs of these genes respectively have the base sequences of SEQ ID NO:1 to 100 (AAC73914 to AAC74013),

CC SEQ ID NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300 (AAC74114 to AAC74213), each is continuous with the base sequence 5'-CATG-3' located most closely to the poly-A region. The sequences can be used for the investigation of the role and mechanism of the involvement of dendritic cells in the immune system and for the study and diagnosis of diseases in which dendritic cells play a significant role, e.g. cancers and autoimmune diseases.

XX

SQ Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 other;

XX

AAC74212 Length: 10 October 2, 2003 14:57 Type: N Check: 4052 ..

aac74212

Query Match 45.0%; Score 9; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 24;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3324 GGGTTCCAG 3332

DB 1 GGGTTCCAG 9

RESULT 13

aaf42053

TOIG of: aaf42053 check: 3956 from: 1 to: 10

ID AAC42053 standard; DNA; 10 BP.

XX

AC AAC42053;

XX

DT 23-MAR-2001 (first entry)

XX

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8792.

XX

KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.

XX

OS Saccharomyces cerevisiae.

XX

PN W0200077214-A2.

XX

PD 21-DEC-2000.

XX

PF 14-JUN-2000; 2000WO-US16223.

XX

PR 16-JUN-1999; 99US-0335032.

XX

PA (UYJO) UNIV JOHNS HOPKINS.

XX

PI Velculescu V, Vogelstein B, Kinzler K;

XX

DR WPI; 2001-061874/07.

XX

PT Yeast gene coding sequences comprising NORF genes with serial analysis of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle

XX

PS Example; Page 314; 419pp; English.

XX

CC The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method

```

; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle;
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; CC
; CC Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 other;
;
; AAF42053 Length: 10 October 2, 2003 14:57 Type: N Check: 3956 ..
aaf42053
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3314 AGGATTCA 3322
Db 2 AGGATTCA 10
|||||
2 AGGATTCA 10

RESULT 14
aaf48142/c
; TOIG Of: aaf48142 check: 3815 from: 1 to: 10
;
; ID AAL48142 standard; DNA; 10 BP.
; XX
; AC AAL48142;
; XX
; DT 27-SEP-2002 (first entry)
; XX
; DE Human neuropeptide Y primer extension oligo SEQ ID NO: 66.
; XX
; DE Human; neuropeptide Y; NPY; isogene; SNP; atherosclerosis; obesity;
; KW psychological disorder; single nucleotide polymorphism; alcoholism;
; KW antiarteriosclerotic; anorectic; PCR; primer extension oligonucleotide;
; KW ss.
; XX
; OS Homo sapiens.
; XX
; PA (ROBE/) ROBERTS B L.
; PN WO200251857-A1.
; XX
; PD 04-JUL-2002.
; XX
; PF 21-DEC-2000; 2000WO-US34758.
; XX
; PR 21-DEC-2000; 2000WO-US34758.
; XX
; PA (GENA-) GENAISSANCE PHARM INC.
; XX
; PI Chew A, Denton RR, Lanz EM, Nandabalan K, Stephens JC;
; XX WPI; 2002-566671/60.
; XX
; CC New genetic variants of the human Neuropeptide Y (NPY) gene useful for
; CC treating disorders affected by abnormal expression or function of NPY
; CC isogene e.g., atherosclerosis or obesity -
; CC Disclosure; Page 17; 80pp; English.
; CC
; CC The present invention provides the human neuropeptide Y (NPY) gene and
; CC single nucleotide polymorphisms (SNPs) identified therein. The sequence
; CC can be used in the treatment of disorders associated with NPY, including

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; CC atherosclerosis, obesity, psychological disorders and alcoholism. The
; CC present sequence is an allele specific primer extension oligonucleotide
; CC used to isolate the human NPY coding sequence.
; CC
; CC Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 other;
;
; AAL48142 Length: 10 October 2, 2003 14:57 Type: N Check: 3815 ..
aal48142
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3315 GGGATTTCAG 3323
Db 9 GGGATTTCAG 1
|||||
9 GGGATTTCAG 1

RESULT 15
aaz83465/c
; TOIG Of: aaz83465 check: 3729 from: 1 to: 10
;
; ID AAZ83465 standard; DNA; 10 BP.
; XX
; AC AAZ83465;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell upregulated transcript tag #2699.
; XX
; DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX WPI; 2000-106079/09.
; XX
; CC Isolated polynucleotides differentially expressed between metastatic
; CC and non-metastatic breast cancer cells, useful for diagnosis,
; CC prevention and treatment of cancer -
; CC Claim 1; Page 131; 219pp; English.
; CC
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while

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```

; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 other;
;
; AAZ83465 Length: 10 October 2, 2003 14:57 Type: N Check: 3729 ..
; aaz83465
;
; Query Match 45.0%; Score 9; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 24;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 3323 GGGGTTCCTCA 3331
; Db 10 GGGGTTCCTCA 2
;
; RESULT 16
; aaz84256
; TOIG of: aaz84256 check: 4054 from: 1 to: 10
;
; ID AAZ84256 standard; DNA; 10 BP.
; XX
; AC AAZ84256;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #3490.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; XX Homo sapiens.
; OS
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; PT Isolated polynucleotides differentially expressed between metastatic
; PT and non-metastatic breast cancer cells, useful for diagnosis,
; PT prevention and treatment of cancer -
; XX
; PS Claim 1; Page 152; 219pp; English.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts

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; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 other;
;
; AAZ84256 Length: 10 October 2, 2003 14:57 Type: N Check: 4054 ..
; aaz84256
;
; Query Match 45.0%; Score 9; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 24;
; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 3321 CAGGGGTTC 3329
; Db 2 CAGGGGTTC 10
;
; RESULT 17
; abk64082/c
; TOIG of: abk64082 check: 3790 from: 1 to: 10
;
; ID ABK64082 standard; DNA; 10 BP.
; XX
; AC ABK64082;
; XX
; DT 18-JUN-2002 (first entry)
; XX
; DE Human BF gene allele-specific oligonucleotide PCR primer #33.
; XX
; KW Human; B-factor; properdin; BF; primer; ss; gene therapy; drug screening;
; KW antidiabetic; dermatological; diabetes; immunosuppressive;
; KW antiinflammatory; systemic lupus erythematosus.
; XX
; OS Homo sapiens.
; XX
; PN WO200218414-A2.
; XX
; PD 07-MAR-2002.
; XX
; PF 29-AUG-2001; 2001WO-US27098.
; XX
; PR 29-AUG-2000; 2000US-228940P.
; XX
; PA (GENA-) GENAISSANCE PHARM INC.
; XX
; PI Anastasio AE, Finkel K, Kazemi A, Koshy B;
; XX
; DR WPI; 2002-304244/34.
; XX
; PT New genetic variants having polymorphisms in the B-Factor, Properdin
; PT (BF) gene, useful for studying the function of BF, and for treating
; PT disorders affected by expression or function of the BF isogene -
; XX
; PS Claim 19; Page 16; 151pp; English.
; XX
; CC The invention relates to single nucleotide polymorphisms in the gene
; CC encoding the human B-factor properdin protein (BF). A method for
; CC haplotyping the BF gene in an individual comprises identifying the

```

```
; CC nucleotide at one or more polymorphic sites and determining whether one
; CC of the copies of the gene is defined by one of the BF haplotypes given in
; CC the specification or whether both copies are defined by a haplotype pair.
; CC This method is useful in genotyping, whereby all possible haplotype pairs
; CC can be assigned to specific genotypes. An association between a trait and
; CC a haplotype or haplotype pair of the BF gene can be identified by
; CC comparing the frequency of the haplotype or haplotype pair in a
; CC population exhibiting the trait with the frequency of the haplotype or
; CC haplotype pair in a reference population, where a higher haplotype or
; CC frequency in the trait population indicates the trait is associated with
; CC the haplotype or haplotype pair. BF and its corresponding DNA are used
; CC for studying the expression and function of BF, for use in screening for
; CC candidate drugs to treat diseases related to BF activity, such as
; CC diabetes and systemic lupus erythematosus. Sequences ABK64050-ABK64105
; CC represent allele-specific PCR primers used to detect human BF gene
; CC polymorphisms.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 4 G; 1 T; 0 other;
; ABK64082 Length: 10 October 2, 2003 14:57 Type: N Check: 3790 ..
abk64082
Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3325 GGTTCACG 3333
DB 9 GGTTCACG 1
|||||||
RESULT 18
aaf30844/c
; TOIG of: aaf30844 check: 4634 from: 1 to: 11
; ID AAF30844 standard; RNA; 11 BP.
; XX
; AC AAF30844;
; XX
; DT 09-JUL-2001 (first entry)
; XX
; DE Group II intron CCR5-435s exon binding site 1 region.
; XX
; KW Group II intron; CCR5-435s; CCR5; chemokine receptor; human;
; KW human immunodeficiency virus type 1; HIV-1; ss.
; XX
; OS Synthetic.
; FH Key
; FT misc_binding 1 Location/Qualifiers
; FT /*tag= a
; FT /bound_moiety= "pBRR-CCR5(s)/Tet delta"
; FT /standard_name= "delta"
; FT /note= "binds to base 34 of sequence in
; FT AAF30843"
; FT misc_binding 3..4
; FT /*tag= b
; FT /bound_moiety= "pBRR-CCR5(s)/Tet delta"
; FT /standard_name= "delta"
; FT /note= "binds to bases 31-32 of sequence in
; FT AAF30843"
; FT misc_binding 5..7
; FT /*tag= c
; FT /bound_moiety= "pBRR-CCR5(s)/Tet IBS1"
; FT /standard_name= "exon binding site 1"
; FT /note= "binds to bases 28-30 of sequence in
; FT AAF30843"
; FT misc_binding 9..10
; FT /*tag= d
; FT /bound_moiety= "pBRR-CCR5(s)/Tet IBS1"
; FT /standard_name= "exon binding site 1"
; FT /note= "binds to bases 25-26 of sequence in
; FT AAF30843"
; FT
```

```
; XX
; PN WO200129059-A1.
; XX
; PD 26-APR-2001.
; XX
; PF 13-OCT-2000; 2000WO-US28485.
; XX
; PR 15-OCT-1999; 99US-0159724.
; PR 13-OCT-2000; 2000US-0159724.
; XX
; PA (OHIS ) UNIV OHIO STATE RES FOUND.
; XX
; PI Lambowitz AM, Guo H, Karberg M;
; XX WPI; 2001-316240/33.
; XX
; PS Novel construct comprising a modified group II intron sequence
; FT comprising modified EBS1, EBS2 or delta sequence, or partially deleted
; FT loop sequence in domain IV, and promoter for regulating intron
; FT transcription
; XX
; PS Example 3; Fig 4B; 61pp; English.
; XX
; CC The present sequence is that of the exon binding site 1 (EBS1)
; CC and delta region element of a group II intron sequence selected to
; CC specifically base pair with a target region (see AAF30843) within
; CC the human CCR5 chemokine receptor gene. The target region was
; CC identified in a screening of CCR5 DNA for sequences matching the
; CC wild-type DNA target site (see AAF30827) of the 11.1trB group II
; CC intron (see AAF30828) of Lactococcus lactis. The intron,
; CC designated CCR5-435s (435s indicating the insertion site on the
; CC sense strand of the CCR5 gene) and also including an EBS2 site
; CC (5'GUGACG) was identified following cloning of the target sequence
; CC into a recipient vector and selecting introns from a combinatorial
; CC library having randomised target site recognition sequences (EBS
; CC and delta). The selected intron CCR5-435s demonstrated a targeting
; CC frequency of 1.5% in Escherichia coli cells following IPTG
; CC induction. Other selected introns were demonstrated to function in
; CC human cells. This is an example of the selection of group II introns
; CC that specifically integrate into specific DNA target sites. In the
; CC present case, inactivation of the CCR5 gene may provide a means of
; CC blocking HIV-1 infection and AIDS progression.
; XX
; SQ Sequence 11 BP; 3 A; 4 C; 2 G; 2 U; 0 other;
; AAF30844 Length: 11 October 2, 2003 14:58 Type: N Check: 4634 ..
aaf30844
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3320 TCAGGGGTT 3328
DB 10 TCAGGGGTT 2
|||||||
RESULT 19
abq87139
; TOIG of: abq87139 check: 4715 from: 1 to: 11
; ID ABQ87139 standard; cDNA; 11 BP.
; XX
; AC ABQ87139;
; XX
; DT 10-SEP-2002 (first entry)
; XX
; DE Human skin stress/ageing related EST SEQ ID NO 894.
; XX
; KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
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; PN W0200253773-A2.
; XX 11-JUL-2002.
; XX 20-DEC-2001; 2001WO-EP15178.
; XX 03-JAN-2001; 2001DE-1000121.
; XX (HENK ) HENKEL KGAA.
; XX Petersohn D, Conradt M, Hofmann K;
; XX WPI; 2002-528865/56.
; XX Identifying genes involved in skin stress and ageing, useful e.g. in
; XX screening for cosmetic or therapeutic agents, based on differential
; XX gene expression
; XX Claim 8; Page 74; 325pp; German.
; XX The invention relates to identifying (M1) genes in vitro that, in humans
; XX or animals, are important for skin ageing and/or skin stress by serial
; XX analysis of gene expression between mixtures of transcribed and
; XX optionally translated, genetically encoded factors (A) obtained from
; XX young and aged skin, to identify that genes that show strong differential
; XX expression. (A) comprises protein or mRNAs or their fragments. (M1) is
; XX useful for: identifying markers of skin ageing and/or stress; determining
; XX skin ageing and/or stress; and identifying or determining the effects of
; XX pharmaceutical or cosmetic agents for control of skin ageing. The present
; XX sequence is one of a group of human skin ageing/stress related expressed
; XX sequence tags (ABQ86246-ABQ87680) of the invention.
; XX Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 other;
; ABQ87139 Length: 11 October 2, 2003 14:58 Type: N Check: 4715
; abq87139
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3324 GGGTCCAG 3332
Db 3 GGGTCCAG 11
RESULT 20
abv63615
; TOIG of: abv63615 check: 4819 from: 1 to: 11
; ID ABV63615 standard; cDNA; 11 BP.
; XX
; AC ABV63615;
; XX
; XX 21-OCT-2002 (first entry)
; XX Human skin EST 1401.
; XX
; XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhoeic;
; XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX Homo sapiens.
; OS
; PN W0200253774-A2.
; XX 11-JUL-2002.
; XX 20-DEC-2001; 2001WO-EP15179.
; XX 03-JAN-2001; 2001DE-1000127.
; XX (HENK ) HENKEL KGAA.
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; XX Petersohn D, Conradt M, Hofmann K;
; XX WPI; 2002-590638/63.
; XX In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX Disclosure; Page 63; 1345pp; German.
; XX The invention relates to in vitro identification (M1) of genes expressed
; XX in the skin of humans or animals by subjecting a mixture of genetically
; XX encoded factors from skin, to serial analysis of gene expression (SAGE)
; XX so as to identify skin-expressed genes and quantify their expression.
; XX (M1) is useful for identifying genes involved in skin homeostasis; to
; XX determine skin homeostasis and to test agent (A) that maintains or
; XX promotes skin homeostasis or that can be used for treating skin
; XX disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; XX ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; XX rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; XX skin. The present sequence is that of a human expressed sequence tag
; XX (EST) of the invention.
; XX Sequence 11 BP; 1 A; 3 C; 3 G; 4 T; 0 other;
; ABV63615 Length: 11 October 2, 2003 14:58 Type: N Check: 4819
; abv63615
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3325 GGTTCACG 3333
Db 2 GGTTCACG 10
RESULT 21
abv64938
; TOIG of: abv64938 check: 4678 from: 1 to: 11
; ID ABV64938 standard; cDNA; 11 BP.
; XX
; AC ABV64938;
; XX
; XX 21-OCT-2002 (first entry)
; XX Human skin EST 2724.
; XX
; XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhoeic;
; XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX Homo sapiens.
; OS
; PN W0200253774-A2.
; XX 11-JUL-2002.
; XX 20-DEC-2001; 2001WO-EP15179.
; XX 03-JAN-2001; 2001DE-1000127.
; XX (HENK ) HENKEL KGAA.
; XX Petersohn D, Conradt M, Hofmann K;
; XX WPI; 2002-590638/63.
; XX In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
```

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; XX Disclosure; Page 100; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 2 A; 2 C; 4 G; 3 T; 0 other;
;
; ABV64938 Length: 11 October 2, 2003 14:58 Type: N Check: 4678 ..
abv64938
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3318 ATTCAGGGG 3326
DB 2 ATTCAGGGG 10
|||||
;
RESULT 22
abv64961/c
; TOIG of: abv64961 check: 4510 from: 1 to: 11
;
; ID ABV64961 standard; cDNA; 11 BP.
; XX
; AC ABV64961;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 2747.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX
; PR 03-JAN-2001; 2001DE-1000127.
; XX
; PA (HENK ) HENKEL KGAA.
; XX
; PI Petersohn D, Conradt M, Hofmann K;
; XX
; PS WPI; 2002-590638/63.
; XX
; DR In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX
; PT (HENK ) HENKEL KGAA.
; XX
; PT Petersohn D, Conradt M, Hofmann K;
; XX
; PS WPI; 2002-590638/63.
; XX
; DR In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX
; PT (HENK ) HENKEL KGAA.
; XX
; PT Petersohn D, Conradt M, Hofmann K;
; XX
; PS Disclosure; Page 101; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 2 A; 2 C; 4 G; 3 T; 0 other;
;
; ABV64938 Length: 11 October 2, 2003 14:58 Type: N Check: 4678 ..
abv64938
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3318 ATTCAGGGG 3326
DB 2 ATTCAGGGG 10
|||||
;
RESULT 22
abv64961/c
; TOIG of: abv64961 check: 4510 from: 1 to: 11
;
; ID ABV64961 standard; cDNA; 11 BP.
; XX
; AC ABV64961;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 2747.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX
; PR 03-JAN-2001; 2001DE-1000127.
; XX
; PA (HENK ) HENKEL KGAA.
; XX
; PI Petersohn D, Conradt M, Hofmann K;
; XX
; PS WPI; 2002-590638/63.
; XX
; DR In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX
; PT (HENK ) HENKEL KGAA.
; XX
; PT Petersohn D, Conradt M, Hofmann K;
; XX
; PS Disclosure; Page 101; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 2 A; 2 C; 4 G; 3 T; 0 other;
;
; ABV64961 Length: 11 October 2, 2003 14:58 Type: N Check: 4510 ..
abv64961
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3323 GGGTTCCA 3331
DB 10 GGGTTCCA 2
|||||
;
RESULT 23
abv65456
; TOIG of: abv65456 check: 4715 from: 1 to: 11
;
; ID ABV65456 standard; cDNA; 11 BP.
; XX
; AC ABV65456;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 3242.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX
; PR 03-JAN-2001; 2001DE-1000127.
; XX
; PA (HENK ) HENKEL KGAA.
; XX
; PI Petersohn D, Conradt M, Hofmann K;
; XX
; PS WPI; 2002-590638/63.
; XX
; DR In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX
; PT (HENK ) HENKEL KGAA.
; XX
; PT Petersohn D, Conradt M, Hofmann K;
; XX
; PS Disclosure; Page 115; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX

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; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 2 A; 4 C; 4 G; 1 T; 0 other;
;
; ABV64961 Length: 11 October 2, 2003 14:58 Type: N Check: 4510 ..
abv64961
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3323 GGGTTCCA 3331
DB 10 GGGTTCCA 2
|||||
;
RESULT 23
abv65456
; TOIG of: abv65456 check: 4715 from: 1 to: 11
;
; ID ABV65456 standard; cDNA; 11 BP.
; XX
; AC ABV65456;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 3242.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX
; PR 03-JAN-2001; 2001DE-1000127.
; XX
; PA (HENK ) HENKEL KGAA.
; XX
; PI Petersohn D, Conradt M, Hofmann K;
; XX
; PS WPI; 2002-590638/63.
; XX
; DR In vitro identification of skin-expressed genes, useful for determining
; XX homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX
; PT (HENK ) HENKEL KGAA.
; XX
; PT Petersohn D, Conradt M, Hofmann K;
; XX
; PS Disclosure; Page 115; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX

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```
; SQ Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 other;
;
; ABV65456 Length: 11 October 2, 2003 14:58 Type: N Check: 4715 ..
abv65456

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3324 GGGTCCAG 3332
| | | | |
Db 3 GGGTCCAG 11

RESULT 24
abv71036
; TOIG of: abv71036 check: 4819 from: 1 to: 11
;
; ID ABV71036 standard; cDNA; 11 BP.
; XX
; AC ABV71036;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 8822.
; XX
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
; immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX
; PR 03-JAN-2001; 2001DE-1000127.
; XX
; PA (HENK ) HENKEL KGAA.
; XX
; PI Petersohn D, Conradt M, Hofmann K;
; XX
; PS WPI; 2002-590638/63.
; XX
; DR
; CC In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; XX
; PS Claim 24; Page 283; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 1 A; 3 C; 3 G; 4 T; 0 other;
;
; ABV71036 Length: 11 October 2, 2003 14:58 Type: N Check: 4819 ..
abv71036

Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 3325 GGTTCAGC 3333
| | | | |
Db 2 GGTTCAGC 10

RESULT 25
aaa56134
; TOIG of: aaa56134 check: 3920 from: 1 to: 10
;
; ID AAA56134 standard; DNA; 10 BP.
; XX
; AC AAA56134;
; XX
; DT 07-SEP-2000 (first entry)
; XX
; DE Human monocyte gene Tag oligonucleotide sequence SEQ ID NO:28.
; XX
; KW Human; monocyte; macrophage; GM-macrophage; M-macrophage; tag;
; granulocyte-macrophage colony-stimulating factor; characterisation;
; GM-CSF; identification; diagnosis; gene specificity; oncogenesis;
; disease onset mechanism; genetic disease; drug development; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200024892-A1.
; XX
; PD 04-MAY-2000.
; XX
; PF 28-OCT-1999; 99WO-JP05982.
; XX
; PR 28-OCT-1998; 98JP-0307532.
; XX
; PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
; XX
; PI Hashimoto S, Matsushima K, Suzuki T;
; XX
; PS WPI; 2000-350734/30.
; XX
; DR
; CC Genes most frequently expressed in human monocytes and GM-macrophages
; CC and M-macrophages studied and with cDNAs characterized, for study of
; CC gene specificity, disease onset mechanism, drug development and
; CC diagnosis
; XX
; PS Claim 1; Page 44; 138pp; Japanese.
; XX
; CC The present invention describes 100 human genes, which are expressed
; CC most frequently in human monocytes. The cDNA of each gene has a
; CC sequence fully defined in the specification, and lacking the CATG
; CC sequence located adjacent to polyA region. Also described are:
; CC (1) an antibody specifically for the protein encoded by any of the
; CC genes; (2) oligonucleotides obtained from the cDNA sequences;
; CC (3) 380 human genes which are expressed most frequently in human
; CC macrophages, differentiated from human monocytes by
; CC granulocyte-macrophage colony-stimulating factor, the cDNA of each gene
; CC has a fully defined sequence, given in the specification, lacking the
; CC base sequence CATG located most closely to the poly A region;
; CC (4) an antibody specifically for the protein encoded by any of the
; CC genes of (3); and (5) oligonucleotides obtained from the cDNA sequences
; CC of (3). The genes and cDNAs are used for the study of gene specificity
; CC and disease onset mechanism e.g. oncogenesis, genetic diseases, drug
; CC development and diagnosis. AAA56107 to AAA56586 represent specifically
; CC claimed oligonucleotide tag sequences for human genes expressed in
; CC monocytes and macrophages.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; AAA56134 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aaa56134

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

QY 3322 AGGGTTTCCA 3331
|||||
Db 1 AGGGCTTCCA 10

RESULT 26

aaa56289
; TOIG of: aaa56289 check: 3920 from: 1 to: 10

; ID AAA56289 standard; DNA; 10 BP.
; AC AAA56289;
; XX
; DT 07-SEP-2000 (first entry)
; DE Human macrophage gene Tag oligonucleotide sequence SEQ ID NO:183.
; XX
; KW Human; monocyte; macrophage; GM-macrophage; M-macrophage; tag;
; KW granulocyte-macrophage colony-stimulating factor; characterisation;
; KW GM-CSF; identification; diagnosis; gene specificity; oncogenesis;
; KW disease onset mechanism; genetic disease; drug development; ss.
; XX
; OS Homo sapiens.
; PN WO200024892-A1.
; XX
; PD 04-MAY-2000.
; XX
; PF 28-OCT-1999; 99WO-JP05982.
; XX
; PR 28-OCT-1998; 98JP-0307532.
; XX
; PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
; XX
; PI Hashimoto S, Matsushima K, Suzuki T;
; XX WPI; 2000-350734/30.
; DR
; XX
; PT Genes most frequently expressed in human monocytes and GM-macrophages
; PT and M-macrophages studied and with cDNAs characterized, for study of
; PT gene specificity, disease onset mechanism, drug development and
; PT diagnosis
; XX
; PS Claim 7; Page 75; 138pp; Japanese.

The present invention describes 100 human genes, which are expressed most frequently in human monocytes. The cDNA of each gene has a sequence fully defined in the specification, and lacking the CATG sequence located adjacent to polyA region. Also described are: (1) an antibody specifically for the protein encoded by any of the genes; (2) oligonucleotides obtained from the cDNA sequences; (3) 380 human genes which are expressed most frequently in human macrophages, differentiated from human monocytes by granulocyte-macrophage colony-stimulating factor, the cDNA of each gene has a fully defined sequence, given in the specification, lacking the base sequence CATG located most closely to the poly A region; (4) an antibody specifically for the protein encoded by any of the genes of (3); and (5) oligonucleotides obtained from the cDNA sequences of (3). The genes and cDNAs, are used for the study of gene specificity and disease onset mechanism e.g. oncogenesis, genetic diseases, drug development and diagnosis. AAA56107 to AAA56586 represent specifically claimed oligonucleotide tag sequences for human genes expressed in monocytes and macrophages.

Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;

; AAA56289 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aaa56289

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGTTTCCA 3331
|||||
Db 1 AGGGCTTCCA 10

RESULT 27

aaa56391
; TOIG of: aaa56391 check: 3920 from: 1 to: 10

; ID AAA56391 standard; DNA; 10 BP.
; AC AAA56391;
; XX
; DT 07-SEP-2000 (first entry)
; DE Human macrophage gene Tag oligonucleotide sequence SEQ ID NO:285.
; XX
; KW Human; monocyte; macrophage; GM-macrophage; M-macrophage; tag;
; KW granulocyte-macrophage colony-stimulating factor; characterisation;
; KW GM-CSF; identification; diagnosis; gene specificity; oncogenesis;
; KW disease onset mechanism; genetic disease; drug development; ss.
; XX
; OS Homo sapiens.
; PN WO200024892-A1.
; XX
; PD 04-MAY-2000.
; XX
; PF 28-OCT-1999; 99WO-JP05982.
; XX
; PR 28-OCT-1998; 98JP-0307532.
; XX
; PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
; XX
; PI Hashimoto S, Matsushima K, Suzuki T;
; XX WPI; 2000-350734/30.
; DR
; XX
; PT Genes most frequently expressed in human monocytes and GM-macrophages
; PT and M-macrophages studied and with cDNAs characterized, for study of
; PT gene specificity, disease onset mechanism, drug development and
; PT diagnosis
; XX
; PS Claim 13; Page 96; 138pp; Japanese.

The present invention describes 100 human genes, which are expressed most frequently in human monocytes. The cDNA of each gene has a sequence fully defined in the specification, and lacking the CATG sequence located adjacent to polyA region. Also described are: (1) an antibody specifically for the protein encoded by any of the genes; (2) oligonucleotides obtained from the cDNA sequences; (3) 380 human genes which are expressed most frequently in human macrophages, differentiated from human monocytes by granulocyte-macrophage colony-stimulating factor, the cDNA of each gene has a fully defined sequence, given in the specification, lacking the base sequence CATG located most closely to the poly A region; (4) an antibody specifically for the protein encoded by any of the genes of (3); and (5) oligonucleotides obtained from the cDNA sequences of (3). The genes and cDNAs, are used for the study of gene specificity and disease onset mechanism e.g. oncogenesis, genetic diseases, drug development and diagnosis. AAA56107 to AAA56586 represent specifically claimed oligonucleotide tag sequences for human genes expressed in monocytes and macrophages.

Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;

; AAA56391 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aaa56391

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGTTCCA 3331
|||||
Db 1 AGGGCTTCCA 10

RESULT 28

aac73982
; TOIG of: aac73982 check: 3920 from: 1 to: 10

; ID AAC73982 standard; cDNA; 10 BP.
; AC AAC73982;
; XX
; DT 02-FEB-2001 (first entry)
; XX
; DE Human dendritic cell cDNA base sequence oligonucleotide #69.
; XX
; KW Human; dendritic cell; monocyte; immune system; diagnosis; cancer;
; KW autoimmune disease; tumour; ss.
; XX
; OS Homo sapiens.
; XX
; PN WC2000060074-A1.
; XX
; PD 12-OCT-2000;
; XX
; PF 30-MAR-2000; 2000WO-JP02019.
; XX
; PR 01-APR-1999; 99JP-0095481.
; XX
; PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
; XX
; PI Hashimoto S, Matsushima K, Suzuki T;
; XX
; DR WPI; 2000-619172/59.
; XX

; PT Groups of genes expressed in human dendritic cells at a greater or
; PT lesser extent than in monocytes for investigation and diagnosis of
; PT autoimmune disease and tumors -
; XX
; PS Claim 1; Page 10; 95pp; Japanese.
; XX

; CC The present invention describes a group of genes consisting of 100 genes
; CC which are highly expressed in human dendritic cells; a group of genes
; CC which are expressed at a higher frequency in human dendritic cells than
; CC in human monocytes; and a group of genes which are expressed at lower
; CC frequency in human dendritic cells than in human monocytes. Each group
; CC of genes are characterised in that cDNAs of these genes respectively
; CC have the base sequences of SEQ ID NO:1 to 100 (AAC73914 to AAC74013),
; CC SEQ ID NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300
; CC (AAC74114 to AAC74213), each is continuous with the base sequence
; CC 5'-CATG-3' located most closely to the poly-A region. The sequences can
; CC be used for the investigation of the role and mechanism of the
; CC involvement of dendritic cells in the immune system and for the study and
; CC diagnosis of diseases in which dendritic cells play a significant role,
; CC e.g. cancers and autoimmune diseases.
; XX

; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;

; AAC73982 Length: 10 October 2, 2003 14:57 Type: N Check: 3920

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 30;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGTTCCA 3331

|||||
Db 1 AGGGCTTCCA 10

RESULT 29

Query Match 42.0%; Score 8.4; DB 1; Length 10;

aaf36987
; TOIG of: aaf36987 check: 3940 from: 1 to: 10
; ID AAF36987 standard; DNA; 10 BP.
; XX
; AC AAF36987;
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3726.

; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX

; OS Saccharomyces cerevisiae.

; PN WO2000077214-A2.

; PD 21-DEC-2000.

; PF 14-JUN-2000; 2000WO-US16223.

; PR 16-JUN-1999; 99US-0335032.

; XX (UYJO) UNIV JOHNS HOPKINS.

; PI Velculescu V, Vogelstein B, Kinzler K;

; DR WPI; 2001-061874/07.

; XX
; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -
; XX

; PS Example; Page 133; 419pp; English.

; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX

; SQ Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 other;

; AAC73987 Length: 10 October 2, 2003 14:57 Type: N Check: 3940

aaf36987

```
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 3 A; 2 C; 3 G; 2 T; 0 other;
; AAF39730 Length: 10 October 2, 2003 14:57 Type: N Check: 3916 ..
aaf39730

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGATTTCAG 3323
   | | | | | | | |
Db 1 AAGGATTTCAG 10

RESULT 30
aaf39730
; TOIG of: aaf39730 check: 3916 from: 1 to: 10
; ID AAF39730 standard; DNA; 10 BP.
; XX
; AC AAF39730;
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6469.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN WO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000WO-US16223.
; XX
; PR 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; PI Velculescu V, Vogelstein B, Kinzler K;
; XX
; DR WPI; 2001-061874/07.
; XX
; CC Yeast gene coding sequences comprising NORF genes with serial analysis
; CC of gene expression (SAGE) tags, useful for studying, monitoring and
; CC affecting phases of the cell cycle -
; CC Example; Page 231; 419pp; English.
; CC
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
```

expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs.

CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention.

Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 other;

AAH1941 Length: 10 October 2, 2003 14:57 Type: N Check: 4002

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 30;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3315 GGGATTCAGG 3324

Db 10 GAGATTCAGG 1

RESULT 32

AAH1941/c

TOIG of: AAH1941 check: 3925 from: 1 to: 10

ID AAH1941 standard; DNA; 10 BP.

XX AC AAH1941;

DT 07-AUG-2001 (first entry)

DE Mouse Treg immunoregulatory network related tag #12.

XX Mouse; EST; expressed sequence tag; contig; immunoregulation; immunosuppression; Treg immunoregulatory network; inflammatory; immune disorder; T regulatory lymphocyte; T helper cell; dermatological; anti-inflammatory; immunosuppressive; antiarteriosclerotic; anti-allergic; antidiabetic; neuroprotective; osteopathic; antiarthritic; anti-ulcer; rheumatoid arthritis; osteoarthritis; glomerular nephritis; diabetes; inflammatory bowel disease; vascular disease; atherosclerosis; psoriasis; vasculitis; skin disease; dermatitis; Crohn's disease; lung disease; ulcerative colitis; lupus erythematosus; autoimmune disorder; emphysema; hypersensitivity; multiple sclerosis; chronic bronchitis; asthma; idiopathic pulmonary fibrosis; primer; probe; tag; ss.

XX Mus musculus.

XX Synthetic.

XX WO200127267-A2.

XX 19-APR-2001.

XX 06-OCT-2000; 2000WO-GB03821.

XX 08-OCT-1999; 99GB-0023790.

XX (ISIS-) ISIS INNOVATION LTD.

XX Adams E, Waldmann H, Cobbold S, Zelenika D;

XX WPI; 2001-300216/31.

XX Isolated genes differentially expressed in T helper 1 (Th1) and 2 (Th2) and T regulatory (Treg) lymphocytes useful in prophylaxis, diagnosis and therapy of inflammatory and immune diseases.

XX Example 4; Page 4; 29pp; English.

CC The present invention describes an isolated gene (I) obtainable by:

CC (a) comparing the expression of one or more genes in populations of T helper 1 lymphocytes (Th1)-, Th2- and T regulatory cells (Treg)-enriched cell populations to identify a gene which is differentially expressed in the populations; and (b) isolating the gene. (I) can have dermatological, anti-inflammatory, immunosuppressive, antiarteriosclerotic, anti-allergic, anti-diabetic, neuroprotective, osteopathic, antiarthritic and anti-ulcer activities. (I) can be used in anti-inflammatory and immunoregulatory compositions for use in therapy, prophylaxis, or diagnosis and/or in a pharmaceutical excipient, a unit dosage form or in a form suitable for local or systemic administration. Methods from the present invention can be used for detecting Th1 and/or Th2 and/or Treg cells in a biological sample, for cell typing or for determining the number of Th1 and/or Th2 and/or Treg cells in a biological sample. Diseases which may be treated by compositions of the invention include rheumatoid and osteoarthritis, glomerular nephritis, diabetes, inflammatory bowel disease, vascular diseases e.g. atherosclerosis and vasculitis, skin diseases such as psoriasis and dermatitis, Crohn's disease, ulcerative colitis, lupus erythematosus, autoimmune disorders, hypersensitivity, multiple sclerosis, and lung diseases e.g. chronic bronchitis, emphysema, idiopathic pulmonary fibrosis and asthma. (I) can also be used as markers for analysis of serum, urine and biopsy, particularly during and after therapy for multiple sclerosis. AAH19930 to AAH20034 and AAB75133 represent sequence used in the exemplification of the present invention.

XX Sequence 10 BP; 1 A; 5 C; 2 G; 2 T; 0 other;

AAH1941 Length: 10 October 2, 2003 14:57 Type: N Check: 3925

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 30;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3316 GGATTCAGG 3325

Db 10 GGATTCAGG 1

RESULT 33

AAH32665

TOIG of: AAH32665 check: 3920 from: 1 to: 10

ID AAH32665 standard; cDNA; 10 BP.

XX AC AAH32665;

XX DT 13-AUG-2001 (first entry)

XX LPS activated human monocyte expression gene cDNA tag SEQ:38.

XX Human; LPS; lipopolysaccharide; monocyte expression gene; tag; EST;

XX expressed sequence tag; diagnosis; human disease; treatment; ss.

XX Homo sapiens.

XX JP2001069993-A.

XX 21-MAR-2001.

XX 28-APR-2000; 2000JP-0131079.

XX 08-JUL-1999; 99JP-0195103.

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX WPI; 2001-304369/32.

XX LPS activated human monocyte expression gene group

XX Claim 1; Page 17; 52pp; Japanese.

XX The present invention describes an lipopolysaccharide (LPS) activated

human monocyte expression gene group consisting of the high-ranking 50 genes of the highest expression among the genes expressed by human monocyte stimulated by LPS in which the cDNA of each gene has the base sequence of (AAH32628 to AAH32677) continuous to the base sequence 5'-CATG-3' nearest to the polyA region. The gene group is useful for the development of new means for the diagnosis and the treatment of various human diseases in which human monocyte plays an important role. AAH32628 to AAH32943 represent specifically claimed LPS activated human monocyte expression gene cDNA tags from the present invention. AAH32944 represents an LPS activated human monocyte expression gene cDNA sequence encoding AAB98009, which are given in the exemplification of the present invention.

Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;

AAH32665 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aah32665

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTTCCA 3331

Db 1 AGGGGTTCCA 10

RESULT 34

aah32697/c

TOIG of: aah32697 check: 3919 from: 1 to: 10

ID AAH32697 standard; cDNA; 10 BP.

XX AAH32697;

XX 13-AUG-2001 (first entry)

XX LPS activated human monocyte expression gene cDNA tag SEQ:70.

XX Human; LPS; lipopolysaccharide; monocyte expression gene; tag; EST;
XX expressed sequence tag; diagnosis; human disease; treatment; ss.

XX Homo sapiens.

XX JP2001069993-A.

XX 21-MAR-2001.

XX 28-APR-2000; 2000JP-0131079.

XX 08-JUL-1999; 99JP-0195103.

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX WPI; 2001-304369/32.

XX LPS activated human monocyte expression gene group -

XX Claim 10; Page 20; 52pp; Japanese.

XX The present invention describes an lipopolysaccharide (LPS) activated human monocyte expression gene group consisting of the high-ranking 50 genes of the highest expression among the genes expressed by human monocyte stimulated by LPS in which the cDNA of each gene has the base sequence of (AAH32628 to AAH32677) continuous to the base sequence 5'-CATG-3' nearest to the polyA region. The gene group is useful for the development of new means for the diagnosis and the treatment of various human diseases in which human monocyte plays an important role.

XX AAH32628 to AAH32943 represent specifically claimed LPS activated human monocyte expression gene cDNA tags from the present invention. AAH32944 represents an LPS activated human monocyte expression gene cDNA sequence encoding AAB98009, which are given in the exemplification of the present invention.

XX Sequence 10 BP; 1 A; 5 C; 2 G; 2 T; 0 other;
SQ

AAH32697 Length: 10 October 2, 2003 14:57 Type: N Check: 3919 ..
aah32697

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 30;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3316 GGATTCAGGG 3325

Db 10 GGATCCAGGG 1

RESULT 35

aah63595

TOIG of: aah63595 check: 3920 from: 1 to: 10

ID AAH63595 standard; cDNA; 10 BP.

XX AAH63595;

XX 20-SEP-2001 (first entry)

XX Human ubiquitously expressed transcriptome sequence SEQ ID NO: 435.

XX Human; transcriptome; gene expression pattern; cancer; drug screening;
XX cancer diagnosis; cell specific gene expression; ss.

XX Homo sapiens.

XX WO200138577-A2.

XX 31-MAY-2001.

XX 21-NOV-2000; 2000WO-US31922.

XX 24-NOV-1999; 99US-0448480.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu VE, Vogelstein B, Kinzler KW;

XX WPI; 2001-367706/38.

XX New isolated polynucleotides, useful for identifying specific cell type, such as cancer cell, comprises transcriptomes expressed in particular cell types -

XX Claim 13; Page 48; 94pp; English.

XX The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention.

XX Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;

AAH63595 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aah63595

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 30;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTTCCA 3331

Db 1 AGGGGTTCCA 10


```
RESULT 36
aah64656
; TOIG of: aah64656 check: 3920 from: 1 to: 10
; ID AAH64656 standard; cDNA; 10 BP.
; XX
; AC AAH64656;
; DT
; DE 20-SEP-2001 (first entry)
; XX
; DE Human colon cancer associated transcriptome sequence SEQ ID NO: 1496.
; KW Human; transcriptome; gene expression pattern; cancer; drug screening;
; KW cancer diagnosis; cell specific gene expression; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200138577-A2.
; PD
; PF 21-NOV-2000; 2000WO-US31922.
; XX
; PF 31-MAY-2001.
; XX
; PR 21-NOV-2000; 2000WO-US31922.
; XX
; PR 24-NOV-1999; 99US-0448480.
; XX
; PR (UYJO ) UNIV JOHNS HOPKINS.
; PA
; PI Velculescu VE, Vogelstein B, Kinzler KW;
; XX
; DR WPI; 2001-367706/38.
; XX
; XX New isolated polynucleotides, useful for identifying specific cell
; XX type, such as cancer cell, comprises transcriptomes expressed in
; XX particular cell types -
; XX
; PS Disclosure; Page 75; 94pp; English.
; XX
; CC The present invention describes a method of identifying the type of cell
; CC in a sample, involving determining which of the sequences
; CC AAH63161-AAH64724 is expressed by the cell. The transcriptomes described
; CC in the invention are cell-type specific, cancer specific or ubiquitously
; CC expressed in humans. They can also be used to screen for drugs, reduce
; CC cancer specific gene expression, standardise expression and restore the
; CC function of a diseased cell or tissue. The present sequence is one of
; CC the transcriptomes described in the exemplification of the invention.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; AAH64656 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aah64656
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3322 AGGGGTTCCA 3331
DB 1 AGGGGTTCCA 10
RESULT 37
aah64706
; TOIG of: aah64706 check: 3920 from: 1 to: 10
; ID AAH64706 standard; cDNA; 10 BP.
; XX
; AC AAH64706;
; DT
; DE 20-SEP-2001 (first entry)
; XX
; DE Human highly expressed transcriptome sequence SEQ ID NO: 1544.
```

```
; XX
; KW Human; transcriptome; gene expression pattern; cancer; drug screening;
; KW cancer diagnosis; cell specific gene expression; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200138577-A2.
; PD
; PF 31-MAY-2001.
; XX
; PF 21-NOV-2000; 2000WO-US31922.
; XX
; PF 24-NOV-1999; 99US-0448480.
; XX
; PR (UYJO ) UNIV JOHNS HOPKINS.
; PA
; PI Velculescu VE, Vogelstein B, Kinzler KW;
; XX
; DR WPI; 2001-367706/38.
; XX
; XX New isolated polynucleotides, useful for identifying specific cell
; XX type, such as cancer cell, comprises transcriptomes expressed in
; XX particular cell types -
; XX
; PS Disclosure; Page 76; 94pp; English.
; XX
; CC The present invention describes a method of identifying the type of cell
; CC in a sample, involving determining which of the sequences
; CC AAH63161-AAH64724 is expressed by the cell. The transcriptomes described
; CC in the invention are cell-type specific, cancer specific or ubiquitously
; CC expressed in humans. They can also be used to screen for drugs, reduce
; CC cancer specific gene expression, standardise expression and restore the
; CC function of a diseased cell or tissue. The present sequence is one of
; CC the transcriptomes described in the exemplification of the invention.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; AAH64706 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aah64706
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3322 AGGGGTTCCA 3331
DB 1 AGGGGTTCCA 10
RESULT 38
aai67389/c
; TOIG of: aai67389 check: 3735 from: 1 to: 10
; ID AAI67389 standard; DNA; 10 BP.
; XX
; AC AAI67389;
; DT
; DE 11-FEB-2002 (first entry)
; XX
; DE Human FKBP8 gene polymorphism detecting primer.
; XX
; KW FK506-binding protein 8; FKBP8; haplotyping; polymorphism; cancer;
; KW immunosuppression; human; primer; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200172965-A2.
; PD
; PF 04-OCT-2001.
; XX
; PF 26-MAR-2001; 2001WO-US09718.
; XX
; PR 24-MAR-2000; 2000US-192125P.
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; XX (GENA-) GENAISSANCE PHARM INC.
; PA
; XX
; XX
; PI Anastasio AE, Bentivegna SC, Choi JY, Kliem SE, Koshy B;
; PI Stephens JC;
; XX
; XX
; DR WPI; 2001-626261/72.
; XX
; XX New haplotypes of the FK506-binding protein 8 gene, useful for
; PT genotyping that gene in individual and to design new therapy for
; PT associated disease such as immunosuppression and cancer
; XX
; XX Claim 16; Page 15; 98pp; English.
; XX
; XX The invention relates to haplotyping the FK506-binding protein 8 (38kD)
; CC (FKBP8) gene in an individual. The method involves determining the
; CC identity of the nucleotide pair at one or more polymorphic sites selected
; CC from P1 to P26 (described in the specification). The invention is useful
; CC to improve the efficiency and reliability of several steps in the
; CC discovery and development of drugs for treating diseases associated with
; CC FKBP8 activity, for example immunosuppression and cancer. Sequences
; CC AA167332-403 represent oligonucleotide primers for detecting FKBP8 gene
; CC polymorphisms by primer extension techniques.
; XX
; SQ Sequence 10 BP; 1 A; 6 C; 2 G; 1 T; 0 other;
;
; AA167389 Length: 10 October 2, 2003 14:57 Type: N Check: 3735
; AA167389
;
; Query Match 42.0%; Score 8.4; DB 1; Length 10;
; Best Local Similarity 90.0%; Pred. No. 30;
; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 3323 GGGGTTCCAG 3332
; DB 10 GGGTGCAG 1
;
; RESULT 39
; aa19576/c
; TOIG of: aa19576 check: 3804 from: 1 to: 10
;
; ID AA19576 standard; DNA; 10 BP.
; XX
; AC AA19576;
; XX
; DT 26-MAR-2002 (first entry)
; XX
; XX Primer-extension oligonucleotide #7 to detect human MPL polymorphisms.
; DE
; DE Human: single nucleotide polymorphism: SNP; chromosome 1p34;
; KW myeloproliferative leukaemia virus oncogene; haplotyping; genotyping;
; KW congenital amegakaryocytic thrombocytopaenia; CAMT; primer; ss.
; XX
; OS Homo sapiens.
; XX
; XX WO200179232-A2.
; PN
; XX 25-OCT-2001.
; PD
; XX 16-APR-2001; 2001WO-US12301.
; PF
; XX 14-APR-2000; 2000US-197839P.
; PR
; XX (GENA-) GENAISSANCE PHARM INC.
; PA
; XX Chew A, Choi JY, Koshy B, Stephens JC;
; PI
; XX WPI; 2002-055251/07.
; DR
; XX Nucleotide polymorphisms in the human myeloproliferative leukemia virus
; PT oncogene (MPL) gene, useful for studying the function of and expressing
; PT MPL protein for use in screening drugs for treating diseases related to
```

```
; PT MPL activity -
; XX
; XX Claim 17; Page 16; 85pp; English.
; XX
; XX The present invention relates to novel single nucleotide polymorphisms
; CC (SNPs) in the human myeloproliferative leukaemia virus oncogene (MPL)
; CC gene located on chromosome 1p34, and methods for haplotyping and/or
; CC genotyping the MPL gene. The methods of the invention make use of
; CC allele-specific oligonucleotides (ASOs) as probes and primers and/or
; CC primer-extension oligonucleotides for detecting MPL gene polymorphisms.
; CC The polynucleotides and screened compounds are useful for the
; CC treatment of diseases associated with MPL activity, such as
; CC congenital amegakaryocytic thrombocytopaenia (CAMT).
; CC AA19570-AA19607 represent primer-extension oligonucleotides for
; CC detecting human MPL gene polymorphisms.
; XX
; SQ Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 other;
;
; AA19576 Length: 10 October 2, 2003 14:58 Type: N Check: 3804
; AA19576
;
; Query Match 42.0%; Score 8.4; DB 1; Length 10;
; Best Local Similarity 90.0%; Pred. No. 30;
; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 3319 TTCAGGGGTT 3328
; DB 10 TTCAGGGGCT 1
;
; RESULT 40
; aa57315
; TOIG of: aa57315 check: 3832 from: 1 to: 10
;
; ID AA57315 standard; DNA; 10 BP.
; XX
; AC AA57315;
; XX
; DT 16-JAN-2002 (first entry)
; XX
; DE Human CHRN2 allele specific oligonucleotide PCR primer terminus #40.
; XX
; KW Human: cholinergic receptor, nicotinic, beta polypeptide 2; neuronal;
; KW CHRN2; memory disorder; Alzheimer's disease; epilepsy; learning;
; KW chromosome 1q21; schizophrenia; attention deficit/hyperactivity disorder;
; KW ADHD; autosomal dominant nocturnal frontal lobe epilepsy; ADNFLE; ss;
; KW allele specific oligonucleotide; ASO; PCR primer.
; XX
; OS Homo sapiens.
; XX
; XX WO200174833-A2.
; PN
; XX 11-OCT-2001.
; PD
; XX 03-APR-2001; 2001WO-US10666.
; PF
; XX 03-APR-2000; 2000US-194155P.
; PR
; XX 13-JUL-2000; 2000US-217952P.
; PA
; XX (GENA-) GENAISSANCE PHARM INC.
; XX
; XX Choi JY, Kliem SE, Koshy B, Lee HH, Sanchis A;
; PI
; XX WPI; 2001-626374/72.
; DR
; XX Genotyping cholinergic receptor, nicotinic, beta-polypeptide 2 gene of
; PT an individual involves determining for two copies of the gene, the
; PT identity of nucleotide pair at polymorphic sites selected from P51-24
; XX
; XX Claim 17; Page 15; 82pp; English.
; PS
; XX The invention relates to genotyping/haplotyping the cholinergic receptor,
```

CC nicotinic, beta-polypeptide 2 (neuronal) (CHRN2) gene of an individual,
 CC comprising determining for the two copies of the CHRN2 gene present in
 CC the individual, the identity of the nucleotide pair at one or more
 CC polymorphic sites selected from PSI-24. Also include are oligonucleotides
 CC for performing the method and the nucleotide sequence of the polymorphic
 CC variants of CHRN2. The method is useful for detecting novel CHRN2
 CC polymorphisms and for determining if an individual has a haplotype or
 CC haplotype pairs defined in the specification and to validate CHRN2 as a
 CC candidate agent for treating a specific condition or disease predicted to
 CC be associated with CHRN2 activity (e.g. a memory disorder, Alzheimer's
 CC disease, epilepsy, a learning disorder, schizophrenia, attention
 CC deficit/hyperactivity disorder, (ADHD) and autosomal dominant nocturnal
 CC frontal lobe epilepsy (ADNFLE)), and in the design of clinical trials
 CC of candidate drugs for treating a specific condition or disease
 CC predicted to be associated with CHRN2 activity. The method is useful to
 CC screen for compounds targeting CHRN2 to treat a specific conditions or
 CC disease associated with CHRN2 activity. The polymorphic nucleic acids
 CC are useful in studying the expression and function of CHRN2, and in
 CC expressing CHRN2 protein for use in screening for candidate drugs to
 CC treat diseases related to CHRN2 activity and are useful for therapeutic
 CC purposes. The CHRN2 gene is located on chromosome 1q21. The present
 CC sequence is an allele specific oligonucleotide (ASO) PCR primer (3'
 CC terminus) for performing the method of the invention.

Sequence 10 BP; 1 A; 3 C; 5 G; 1 T; 0 other;

AA57315 Length: 10 October 2, 2003 14:57 Type: N Check: 3832 ..

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 30;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3323 GGGGTCCAG 3332
 ||||| ||||
 Db 1 GGGTCCCAG 10

RESULT 41
 aav35904/c
 ; TOIG of: aav35904 check: 3860 from: 1 to: 10
 ; ID AAV35904 standard; DNA; 10 BP.
 ; XX
 ; AC AAV35904;
 ; XX
 ; DT 26-AUG-1998 (first entry)
 ; XX
 ; DE Primer used in RAPD assay of the invention.
 ; XX
 ; KW Rapid amplification of polymorphic DNA; RAPD; allele; breeding programme;
 ; KW muscle fibre composition; Duroc pig; meat quality; PCR primer; ss.
 ; XX
 ; OS Synthetic.
 ; OS Sus sp.
 ; XX
 ; PN W09815837-A1.
 ; XX
 ; PD 16-APR-1998.
 ; XX
 ; PF 07-OCT-1997; 97WO-GB02741.
 ; XX
 ; PR 09-SEP-1997; 97GB-0019002.
 ; PR 07-OCT-1996; 96GB-0020904.
 ; PR 18-FEB-1997; 97GB-0003350.
 ; PR 20-MAR-1997; 97GB-0005796.
 ; XX
 ; XX (MEAT-) MEAT & LIVESTOCK COMMISSION.

Maltin CA, Steven J, Warkup CC;

WPI; 1998-240968/21.

XX

PT Assay for alleles or muscle fibre composition characteristic of
 ; PT Duroc type pigs - comprises determination of genotype or muscle
 ; PT fibre properties, used to identify animals for breeding programs and
 ; XX to assess meat quality

Example 3; Page 32; 56pp; English.

CC PCR primers AAV35877-996 were used in a rapid amplification of
 ; CC polymorphic DNA (RAPD) reaction in the assay of the invention. This assay
 ; CC is used to determine if an animal has an allele for, or muscle fibre
 ; CC composition (MFC) characteristic of, the Duroc pig. Duroc pigs produce
 ; CC meat of superior quality (particularly tenderness) but are normally less
 ; CC efficient feed converters and fatter than other types. The assay
 ; CC comprises analysing a tissue sample to determine if the genotype
 ; CC comprises the allele, and genetic features typical of animals with
 ; CC Duroc-type MFC are present. The method is used to select animals that
 ; CC have Duroc characteristics for use in breeding programmes (to develop
 ; CC the animals with Duroc pig characteristics), and to assess meat quality.

Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 other;

AAV35904 Length: 10 October 2, 2003 14:57 Type: N Check: 3860 ..

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 30;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3321 CAGGGGTCC 3330
 || |||||
 Db 10 CATGGGTCC 1

RESULT 42
 aaz83394/c
 ; TOIG of: aaz83394 check: 3837 from: 1 to: 10

ID AAZ83394 standard; DNA; 10 BP.

AAZ83394;

07-APR-2000 (first entry)

Metastatic breast tumour cell upregulated transcript tag #2628.

Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 non-metastatic breast tumour tissue; gene therapy; anticancer;
 antimetastatic; vaccine; diagnosis; ss.

Homo sapiens.

WO9965928-A2.

23-DEC-1999.

18-JUN-1999; 99WO-US13647.

19-JUN-1998; 98US-0089853.

19-JUN-1998; 98US-0089997.

19-JUN-1998; 98US-0090039.

19-JUN-1998; 98US-0090040.

19-JUN-1998; 98US-0090041.

(GENZ) GENZYME CORP.

(ROBE/) ROBERTS B L.

(SHAN/) SHANKARA S.

Roberts BL, Shankara S;

WPI; 2000-106079/09.

Isolated polynucleotides differentially expressed between metastatic
 and non-metastatic breast cancer cells, useful for diagnosis,

```

; PT prevention and treatment of cancer -
; XX
; PS Claim 1; Page 129; 219pp; English.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 5 C; 2 G; 1 T; 0 other;
;
; AAZ83394 Length: 10 October 2, 2003 14:57 Type: N Check: 3837
;
; Query Match 42.0%; Score 8.4; DB 1; Length 10;
; Best Local Similarity 90.0%; Pred. No. 30;
; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 3320 TCAGGGGTC 3329
; DB 10 TCAGGGGTC 1
;
; RESULT 43
; aaz83350/c
; TOIG of: aaz83550 check: 3859 from: 1 to: 10
; ID AAZ83550 standard; DNA; 10 BP.
; XX
; XX AAZ83550;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell upregulated transcript tag #2784.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; XX WO9965928-A2.
; XX
; XX 23-DEC-1999.
; XX
; XX 18-JUN-1999; 99WO-US13647.
; XX
; XX 19-JUN-1998; 98US-0089853.
; XX
; XX 19-JUN-1998; 98US-0089997.
; XX
; XX 19-JUN-1998; 98US-0090039.
; XX
; XX 19-JUN-1998; 98US-0090040.
; XX
; XX 19-JUN-1998; 98US-0090041.
; XX
; XX (GENZ ) GENZYME CORP.
; XX
; XX (ROBE/) ROBERTS B L.
; XX
; XX (SHAN/) SHANKARA S.

```

```

; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; XX Isolated polynucleotides differentially expressed between metastatic
; XX and non-metastatic breast cancer cells, useful for diagnosis,
; XX prevention and treatment of cancer -
; PS Claim 1; Page 133; 219pp; English.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 1 A; 6 C; 1 G; 2 T; 0 other;
;
; AAZ83550 Length: 10 October 2, 2003 14:57 Type: N Check: 3859
;
; Query Match 42.0%; Score 8.4; DB 1; Length 10;
; Best Local Similarity 90.0%; Pred. No. 30;
; Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 3315 GGGATTCAGG 3324
; DB 10 GGGATTCAGG 1
;
; RESULT 44
; aaz84309
; TOIG of: aaz84309 check: 3871 from: 1 to: 10
; ID AAZ84309 standard; DNA; 10 BP.
; XX
; XX AAZ84309;
; XX
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #3543.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; XX WO9965928-A2.
; XX
; XX 23-DEC-1999.
; XX
; XX 18-JUN-1999; 99WO-US13647.
; XX
; XX 19-JUN-1998; 98US-0089853.
; XX
; XX 19-JUN-1998; 98US-0089997.

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19-JUN-1998; 98US-0090039.
19-JUN-1998; 98US-0090040.
19-JUN-1998; 98US-0090041.

(GENZ) GENZYME CORP.
(ROBE/) ROBERTS B L.
(SHAN/) SHANKARA S.

Roberts BL, Shankara S;
WPI; 2000-106079/09.

Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -

Claim 1; Page 153; 219pp; English.

AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy.

Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 other;

AAZ84309 Length: 10 October 2, 2003 14:57 Type: N Check: 3871

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3317 GATTCAGGGG 3326
||| |||||
Db 1 GAATCAGGGG 10

RESULT 45
aaz84773/c TOIG of: aaz84773 check: 3863 from: 1 to: 10

ID AAZ84773 standard; DNA; 10 BP.

AC AAZ84773;

DT 07-APR-2000 (first entry)

Metastatic breast tumour cell downregulated transcript tag #4007.

Human; metastatic breast tumour tissue; breast cancer; tag; primer;
non-metastatic breast tumour tissue; gene therapy; anticancer;
antimetastatic; vaccine; diagnosis; ss.

Homo sapiens.

OS W09965928-A2.

PN

XX
PD

23-DEC-1999.

18-JUN-1999; 99WO-US13647.

19-JUN-1998; 98US-0089853.

19-JUN-1998; 98US-0089997.

19-JUN-1998; 98US-0090039.

19-JUN-1998; 98US-0090040.

19-JUN-1998; 98US-0090041.

(GENZ) GENZYME CORP.

(ROBE/) ROBERTS B L.

(SHAN/) SHANKARA S.

Roberts BL, Shankara S;

WPI; 2000-106079/09.

Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer -

Claim 1; Page 165; 219pp; English.

AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy.

Sequence 10 BP; 2 A; 6 C; 0 G; 2 T; 0 other;

AAZ84773 Length: 10 October 2, 2003 14:57 Type: N Check: 3863

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3316 GGATTCAGGG 3325
|||||
Db 10 GGATTCAGGG 1

RESULT 46
aaz85387/c TOIG of: aaz85387 check: 3959 from: 1 to: 10

ID AAZ85387 standard; DNA; 10 BP.

XX AAZ85387;

DT 07-APR-2000 (first entry)

Metastatic breast tumour cell downregulated transcript tag #4621.

XX

```

; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; CC Isolated polynucleotides differentially expressed between metastatic
; CC and non-metastatic breast cancer cells, useful for diagnosis,
; CC prevention and treatment of cancer -
; CC Claim 1; Page 183; 219pp; English.
; XX
; CC AA280767 to AA283941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AA283942 to AA286677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 1 A; 5 C; 2 G; 2 T; 0 other;
;
; AAZ85387 Length: 10 October 2, 2003 14:57 Type: N Check: 3959 ..
aaz85387
    Query Match 42.0%; Score 8.4; DB 1; Length 10;
    Best Local Similarity 90.0%; Pred. No. 30;
    Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
    QY 3317 GATTCAGGGG 3326
    Db 10 GATCCAGGGG 1
        ||| |||||
        10 GATCCAGGGG 1
    RESULT 47
    ; TOIG of: aaz85591 check: 3944 from: 1 to: 10
    ; ID AAZ85591 standard; DNA; 10 BP.

```

```

; XX
; AC AAZ85591;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #4825.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; CC Isolated polynucleotides differentially expressed between metastatic
; CC and non-metastatic breast cancer cells, useful for diagnosis,
; CC prevention and treatment of cancer -
; CC Claim 1; Page 188; 219pp; English.
; XX
; CC AA280767 to AA283941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AA283942 to AA286677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 other;
;
; AAZ85591 Length: 10 October 2, 2003 14:57 Type: N Check: 3944 ..
aaz85591
    Query Match 42.0%; Score 8.4; DB 1; Length 10;
    Best Local Similarity 90.0%; Pred. No. 30;
    Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
    QY 3315 GGGATTCAGG 3324
    Db 10 GGGATACAGG 1
        ||||| |||||
        10 GGGATACAGG 1

```

```
RESULT 48
aaz85716/c
; TOIG of: aaz85716 check: 3701 from: 1 to: 10
;
; ID AAZ85716 standard; DNA; 10 BP.
; XX
; AC AAZ85716;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #4950.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; PS Claim 1; Page 190; 219pp; English.
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 other;
;
; AAZ85716 Length: 10 October 2, 2003 14:57 Type: N Check: 3701 ..
aaz85716
```

```
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3323 GGGGTTCCAG 3332
Db 10 GGGGTTTCAG 1
||||| |||

RESULT 49
aba06128
; TOIG of: aba06128 check: 3920 from: 1 to: 10
;
; ID ABA06128 standard; cDNA; 10 BP.
; XX
; AC ABA06128;
; XX
; DT 10-JAN-2002 (first entry)
; XX
; DE Human normal hepatocyte expression gene cDNA, SEQ ID NO: 105.
; KW Human; hepatocyte; gene expression; hepatopathy; ss.
; XX
; OS Homo sapiens.
; XX
; PN JP2001211883-A.
; XX
; PD 07-AUG-2001.
; XX
; PF 31-JAN-2000; 2000JP-0023170.
; XX
; PR 31-JAN-2000; 2000JP-0023170.
; XX
; PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
; XX
; WPI; 2001-629566/73.
; XX
; DR Human normal hepatocyte expression gene group -
; XX
; PT Claim 1; Page 8; 26pp; Japanese.
; PS
; CC The invention relates to a human normal hepatocyte expression gene
; CC group comprising 200 genes in the human normal hepatocyte. The
; CC cDNA of each gene comprises one of 200 fully defined nucleotide
; CC sequences as given in the specification. The gene group and the cDNAs
; CC corresponding to each of the genes in the group are useful in the
; CC diagnosis and treatment of human hepatopathy. The present sequence
; CC is a cDNA corresponding to a gene expressed by normal human
; CC hepatocytes.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; ABA06128 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
aba06128

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3322 AGGGGTTCCA 3331
Db 1 AGGGGTTCCA 10
||||| |||||

RESULT 50
abk23413
; TOIG of: abk23413 check: 3920 from: 1 to: 10
;
; ID ABK23413 standard; DNA; 10 BP.
; XX
; AC ABK23413;
; XX
; DT 09-APR-2002 (first entry)
```

```
; XX Transcript tag DNA sequence #2 induced or suppressed by N-myc.
; DE
; XX
; XX Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
; KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
; KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
; XX
; OS Homo sapiens.
; XX
; XX WO200185941-A2.
; PN
; XX
; XX 15-NOV-2001.
; PD
; XX
; XX 11-MAY-2001; 2001WO-NL00361.
; PF
; XX
; XX 11-MAY-2000; 2000EP-0201698.
; PR
; XX 29-JUN-2000; 2000EP-0202284.
; PR
; XX
; XX (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
; PA
; XX
; XX Versteeg R, Caron HN;
; PI
; XX
; XX WPI; 2002-066603/09.
; DR
; XX
; XX A new nucleic acid library of myc-dependent downstream genes capable of
; CC supporting a neoplastic characteristic of cancer is useful to find new
; CC therapies and diagnoses for cancer
; PT
; XX
; XX Disclosure; Page 49; 69pp; English.
; PS
; XX
; XX The present invention relates to a nucleic acid library comprising
; CC myc-dependent downstream genes or their functional fragments essentially
; CC capable of supporting a neoplastic character of cancer such as growth,
; CC invasion or spread. These myc target or tag sequences are identified
; CC by SAGE (serial analysis of gene expression). The library is useful to
; CC find new diagnoses and treatments for cancer. The invention is also
; CC useful to enhance production of recombinant proteins in a production
; CC system with high expression of endogenous or transfected myc oncogenes.
; CC ABK23412-ABK23828 represent transcript tag DNA sequences that are
; CC activated or repressed by N-myc in human neuroblastoma.
; XX
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; ABK23413 Length: 10 October 2, 2003 14:57 Type: N Check: 3920 ..
abk23413
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 3322 AGGGGTTCCA 3331
    |||||
Db 1 AGGGGTTCCA 10
RESULT 51
abk85685
; TOIG of: abk85685 check: 3940 from: 1 to: 10
;
; ID ABK85685 standard; DNA; 10 BP.
; XX
; AC ABK85685;
; XX
; XX 15-AUG-2002 (first entry)
; DT
; XX
; DE Human SCYB6 gene polymorphism detection oligonucleotide primer #6.
; XX
; KW Human; small inducible cytokine subfamily B (Cys-X-Cys);
; KW Member 6 (granulocyte chemotactic protein 2); SCYB6; primer; ss;
; KW inflammatory disorder; cancer; antinflammatory; cytostatic;
; KW gene therapy; SCYB6 isogene expression modulator; SNP;
; KW single nucleotide polymorphism.
; XX
```

```
; OS Homo sapiens.
; XX
; XX WO200227030-A1.
; PN
; XX
; XX 04-APR-2002.
; PD
; XX
; XX 27-SEP-2001; 2001WO-US30413.
; PF
; XX
; XX 27-SEP-2000; 2000US-235809P.
; PR
; XX
; XX (GENA-) GENAISSANCE PHARM INC.
; PA
; XX
; XX Anastasio AE, Bentivegna SC, Choi JY, Monroe G, Russo DP;
; PI
; XX
; XX WPI; 2002-405057/43.
; DR
; XX
; XX New isolated polymorphic variant of small inducible cytokine subfamily
; CC B (Cys-X-Cys), Member 6 (granulocyte chemotactic protein 2) gene,
; CC useful for expressing protein isoform used in drug screening techniques
; PT
; XX
; XX Claim 16; Page 13; 7lpp; English.
; PS
; XX
; XX The present invention relates to a new polynucleotide having small
; CC inducible cytokine subfamily B (Cys-X-Cys), Member 6 (granulocyte
; CC chemotactic protein 2) (SCYB6) isogene. The invention is useful for
; CC studying expression and function of SCYB6 and expressing SCYB6 protein
; CC for use in screening for candidate drugs to treat diseases related to
; CC SCYB6 activity. The polymorphism and haplotype data is useful for
; CC validating whether SCYB6 is a suitable target for drugs to inflammatory
; CC disorders and cancer, screening for such drugs and reducing bias
; CC in clinical trials of such drugs. The invention is also useful for
; CC therapeutic purposes. The method of the invention is useful for
; CC identifying an association between susceptibility to a disease, staging
; CC of a disease, or response to a drug. The present nucleic acid sequence
; CC represents one of a collection of oligonucleotide primers (ABK85680-
; CC ABK85697) that were used in the invention to detect polymorphisms in
; CC the human SCYB6 gene.
; XX
; SQ Sequence 10 BP; 3 A; 2 C; 3 G; 2 T; 0 other;
;
; ABK85685 Length: 10 October 2, 2003 14:57 Type: N Check: 3940 ..
abk85685
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 3314 AGGGATTCAG 3323
    |||||
Db 1 AGGGATTCAG 10
RESULT 52
abl42689
; TOIG of: abl42689 check: 3920 from: 1 to: 10
;
; ID ABL42689 standard; cDNA; 10 BP.
; XX
; AC ABL42689;
; XX
; XX 12-APR-2002 (first entry)
; DT
; XX
; DE Human maturation/activation dendritic cell expression gene tag #63.
; XX
; KW Human; maturation/activation dendritic cell expression gene; tag;
; KW maturation; activation; dendritic cell; ss.
; XX
; OS Homo sapiens.
; XX
; XX JP2001327293-A.
; PN
; XX
; XX 27-NOV-2001.
; PD
```



```
; XX 22-MAY-2000; 2000JP-0150562.
; PF
; CC
; CC
; PR 22-MAY-2000; 2000JP-0150562.
; CC
; CC
; PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
; XX
; CC
; DR WPI; 2002-127070/17.
; XX
; PT
; PS Human maturation/activation dendritic cell expression gene group -
; XX Claim 1; Page 10; 41pp; Japanese.
; CC
; CC The present invention describes a human maturation/activation dendritic
; CC cell (DC) expression gene group consisting of 100 genes which show the
; CC highest expression among the genes expressed in human maturation/
; CC activation DC. Also described are: (1) a protein expressed by the above
; CC human maturation/activation DC expression gene; (2) an antibody against
; CC the protein; and (3) an antagonist against the expression of each gene
; CC belonging to the above gene group. The gene group is useful for the
; CC treatment and the diagnosis of various human diseases related to human
; CC DC. ABL42627 to ABL42926 represent specifically claimed human
; CC maturation/activation DC expression gene tags from the present invention.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; ABL42689 Length: 10 October 2, 2003 14:58 Type: N Check: 3920 ..
abl42689
  Query Match 42.0%; Score 8.4; DB 1; Length 10;
  Best Local Similarity 90.0%; Pred. No. 30;
  Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
  Qy 3322 AGGGTTCCA 3331
  Db 1 AGGGTTCCA 10
  RESULT 53
  abl42751/c
  ; TOIG of: abl42751 check: 3846 from: 1 to: 10
  ; ID ABL42751 standard; cDNA; 10 BP.
  ; XX
  ; AC ABL42751;
  ; XX
  ; DT 12-APR-2002 (first entry)
  ; XX
  ; DE Human maturation/activation dendritic cell expression gene tag #125.
  ; XX
  ; KW Human: maturation/activation dendritic cell expression gene; tag;
  ; KW maturation; activation; dendritic cell; ss.
  ; XX
  ; OS Homo sapiens.
  ; XX
  ; PN JP2001327293-A.
  ; XX
  ; PD 27-NOV-2001.
  ; XX
  ; PF 22-MAY-2000; 2000JP-0150562.
  ; XX
  ; PR 22-MAY-2000; 2000JP-0150562.
  ; XX
  ; PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
  ; XX
  ; DR WPI; 2002-127070/17.
  ; XX
  ; PT Human maturation/activation dendritic cell expression gene group -
  ; XX Claim 10; Page 12; 41pp; Japanese.
  ; PS
  ; CC The present invention describes a human maturation/activation dendritic
  ; CC cell (DC) expression gene group consisting of 100 genes which show the
```

```
; CC highest expression among the genes expressed in human maturation/
; CC activation DC. Also described are: (1) a protein expressed by the above
; CC human maturation/activation DC expression gene; (2) an antibody against
; CC the protein; and (3) an antagonist against the expression of each gene
; CC belonging to the above gene group. The gene group is useful for the
; CC treatment and the diagnosis of various human diseases related to human
; CC DC. ABL42627 to ABL42926 represent specifically claimed human
; CC maturation/activation DC expression gene tags from the present invention.
; XX
; SQ Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 other;
;
; ABL42751 Length: 10 October 2, 2003 14:58 Type: N Check: 3846 ..
abl42751
  Query Match 42.0%; Score 8.4; DB 1; Length 10;
  Best Local Similarity 90.0%; Pred. No. 30;
  Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
  Qy 3319 TTCAGGGTT 3328
  Db 10 TTCAGGGTT 1
  RESULT 54
  abl42815/c
  ; TOIG of: abl42815 check: 3919 from: 1 to: 10
  ; ID ABL42815 standard; cDNA; 10 BP.
  ; XX
  ; AC ABL42815;
  ; XX
  ; DT 12-APR-2002 (first entry)
  ; XX
  ; DE Human maturation/activation dendritic cell expression gene tag #189.
  ; XX
  ; KW Human: maturation/activation dendritic cell expression gene; tag;
  ; KW maturation; activation; dendritic cell; ss.
  ; XX
  ; OS Homo sapiens.
  ; XX
  ; PN JP2001327293-A.
  ; XX
  ; PD 27-NOV-2001.
  ; XX
  ; PF 22-MAY-2000; 2000JP-0150562.
  ; XX
  ; PR 22-MAY-2000; 2000JP-0150562.
  ; XX
  ; PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
  ; XX
  ; DR WPI; 2002-127070/17.
  ; XX
  ; PT Human maturation/activation dendritic cell expression gene group -
  ; XX Claim 10; Page 14; 41pp; Japanese.
  ; PS
  ; CC The present invention describes a human maturation/activation dendritic
  ; CC cell (DC) expression gene group consisting of 100 genes which show the
  ; CC highest expression among the genes expressed in human maturation/
  ; CC activation DC. Also described are: (1) a protein expressed by the above
  ; CC human maturation/activation DC expression gene; (2) an antibody against
  ; CC the protein; and (3) an antagonist against the expression of each gene
  ; CC belonging to the above gene group. The gene group is useful for the
  ; CC treatment and the diagnosis of various human diseases related to human
  ; CC DC. ABL42627 to ABL42926 represent specifically claimed human
  ; CC maturation/activation DC expression gene tags from the present invention.
  ; XX
  ; SQ Sequence 10 BP; 1 A; 5 C; 2 G; 2 T; 0 other;
  ;
  ; ABL42815 Length: 10 October 2, 2003 14:58 Type: N Check: 3919 ..
  abl42815
    Query Match 42.0%; Score 8.4; DB 1; Length 10;
```

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Best Local Similarity 90.0%; Score 8.4; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3316 GGATTCAGGG 3325
    |||||
Db 10 GGATCCAGG 1

RESULT 55
abq71536
; TOIG of: abq71536 check: 3978 from: 1 to: 10
; ID ABQ71536 standard; DNA; 10 BP.
; XX
; AC ABQ71536;
; XX
; DT 28-AUG-2002 (first entry)
; DE Zinc finger protein related oligonucleotide target SEQ ID NO:1270.
; KW Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
; XX
; OS Homo sapiens.
; OS Synthetic.
; PN WO200242459-A2.
; XX
; PD 30-MAY-2002.
; XX
; PF 20-NOV-2001; 2001WO-US43438.
; XX
; PR 20-NOV-2000; 2000US-0716637.
; XX
; PA (SANG-) SANGAMO BIOSCIENCES INC.
; XX
; PI Liu Q;
; XX
; DR WPI; 2002-500284/53.
; XX
; PT New zinc finger protein that binds to target site, useful in studying
; PT gene function and for human therapeutics and plant engineering,
; PT comprises first, second and third zinc fingers, ordered from N- to
; PT C-terminus
; XX
; PS Example 1; Page 47; 8lpp; English.
; CC The present invention describes a zinc finger protein (I) that binds to
; CC a target site, comprising a first (F1), a second (F2), and a third (F3)
; CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
; CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
; CC and a third (S3) target subsite. Also described are: (I) a polypeptide
; CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
; CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
; CC it binds to the S1 target subsite, selecting the F2 zinc finger such
; CC that it binds to the S2 target subsite, and selecting the F3 zinc
; CC finger such that it binds to the S3 target subsite, thus designing (I)
; CC that binds to a target site. (I) is useful for recognition of triplet
; CC target subsites having the nucleotide G in the 5'-most position of the
; CC subsite. (I) is useful in studying gene function, and for human
; CC therapeutics and plant engineering. (I), (II) or (III) is useful in
; CC therapeutic methods to modulate the expression of a target region within
; CC a subject, in diagnostic methods for sequence specific detection of
; CC target nucleic acid in a sample, and in assays to determine the
; CC phenotype and function of gene expression. (I) has improved affinity
; CC and specificity for their target sequences, as well as enhanced
; CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
; CC represent DNA target sequences and zinc finger peptides which are given
; CC in the exemplification of the present invention.
; XX
; SQ Sequence 10 BP; 3 A; 1 C; 3 G; 3 T; 0 other;
; ABQ71536 Length: 10 October 2, 2003 14:57 Type: N Check: 3978
abq71536
```

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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3314 AGGATTCAG 3323
    |||||
Db 1 ATGGATTCAG 10

RESULT 56
abq71541
; TOIG of: abq71541 check: 3978 from: 1 to: 10
; ID ABQ71541 standard; DNA; 10 BP.
; XX
; AC ABQ71541;
; XX
; DT 28-AUG-2002 (first entry)
; DE Zinc finger protein related oligonucleotide target SEQ ID NO:1275.
; KW Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
; XX
; OS Homo sapiens.
; OS Synthetic.
; PN WO200242459-A2.
; XX
; PD 30-MAY-2002.
; XX
; PF 20-NOV-2001; 2001WO-US43438.
; XX
; PR 20-NOV-2000; 2000US-0716637.
; XX
; PA (SANG-) SANGAMO BIOSCIENCES INC.
; XX
; PI Liu Q;
; XX
; DR WPI; 2002-500284/53.
; XX
; PT New zinc finger protein that binds to target site, useful in studying
; PT gene function and for human therapeutics and plant engineering,
; PT comprises first, second and third zinc fingers, ordered from N- to
; PT C-terminus
; XX
; PS Example 1; Page 47; 8lpp; English.
; CC The present invention describes a zinc finger protein (I) that binds to
; CC a target site, comprising a first (F1), a second (F2), and a third (F3)
; CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
; CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),
; CC and a third (S3) target subsite. Also described are: (I) a polypeptide
; CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and
; CC (3) designing (M) (I) involves selecting the F1 zinc finger such that
; CC it binds to the S1 target subsite, selecting the F2 zinc finger such
; CC that it binds to the S2 target subsite, and selecting the F3 zinc
; CC finger such that it binds to the S3 target subsite, thus designing (I)
; CC that binds to a target site. (I) is useful for recognition of triplet
; CC target subsites having the nucleotide G in the 5'-most position of the
; CC subsite. (I) is useful in studying gene function, and for human
; CC therapeutics and plant engineering. (I), (II) or (III) is useful in
; CC therapeutic methods to modulate the expression of a target region within
; CC a subject, in diagnostic methods for sequence specific detection of
; CC target nucleic acid in a sample, and in assays to determine the
; CC phenotype and function of gene expression. (I) has improved affinity
; CC and specificity for their target sequences, as well as enhanced
; CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
; CC represent DNA target sequences and zinc finger peptides which are given
; CC in the exemplification of the present invention.
; XX
; SQ Sequence 10 BP; 3 A; 1 C; 3 G; 3 T; 0 other;
; ABQ71541 Length: 10 October 2, 2003 14:57 Type: N Check: 3978
abq71541
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; ABQ71541 Length: 10 October 2, 2003 14:57 Type: N Check: 3978 ..
abq71541
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCAG 3323
| | | | | | | |
Db 1 ATGGATTCAG 10

RESULT 57
abq71603
; TOIG of: abq71603 check: 3978 from: 1 to: 10
; ID ABQ71603 standard; DNA; 10 BP.
; XX ABQ71603;
; AC ABQ71603;
; XX 28-AUG-2002 (first entry)
; DT 28-AUG-2002 (first entry)
; XX Zinc finger protein related oligonucleotide target SEQ ID NO:1337.
; DE Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
; XX Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.
; KW Homo sapiens.
; XX Synthetic.
; OS Synthetic.
; XX WO200242459-A2.
; PN WO200242459-A2.
; XX 30-MAY-2002.
; PD 30-MAY-2002.
; XX 20-NOV-2001; 2001WO-US43438.
; PF 20-NOV-2001; 2001WO-US43438.
; XX 20-NOV-2000; 2000US-0716637.
; PR 20-NOV-2000; 2000US-0716637.
; XX (SANG-) SANGAMO BIOSCIENCES INC.
; PA (SANG-) SANGAMO BIOSCIENCES INC.
; XX Liu Q;
; PI Liu Q;
; XX WPI; 2002-500284/53.
; DR WPI; 2002-500284/53.
; XX New zinc finger protein that binds to target site, useful in studying
; PT gene function and for human therapeutics and plant engineering,
; PT comprises first, second and third zinc fingers, ordered from N- to
; PT C-terminus
; XX Example 1; Page 49; 81pp; English.
; PS The present invention describes a zinc finger protein (I) that binds to
; CC a target site, comprising a first (F1), a second (F2), and a third (F3)
; CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the
; CC target site comprises in 3'-5' direction, a first (S1), a second (S2),
; CC and a third (S3) target subsite. Also described are: (I) a polypeptide,
; CC comprising (I); (2) a polynucleotide (II) encoding (I) or (II); and
; CC (3) designing (W) (I) involves selecting the F1 zinc finger such that
; CC it binds to the S1 target subsite, selecting the F2 zinc finger such
; CC that it binds to the S2 target subsite, and selecting the F3 zinc
; CC finger such that it binds to the S3 target subsite, thus designing (I)
; CC that binds to a target site. (I) is useful for recognition of triplet
; CC target subsites having the nucleotide G in the 5'-most position of the
; CC subsite. (I) is useful in studying gene function, and for human
; CC therapeutics and plant engineering. (I), (II) or (III) is useful in
; CC therapeutic methods to modulate the expression of a target region within
; CC a subject, in diagnostic methods for sequence specific detection of
; CC target nucleic acid in a sample, and in assays to determine the
; CC phenotype and function of gene expression. (I) has improved affinity
; CC and specificity for their target sequences, as well as enhanced
; CC biological activity. ABQ71213 to ABQ72214 and ABP48191 to ABP51230
; CC represent DNA target sequences and zinc finger peptides which are given
; CC in the exemplification of the present invention.
; XX
```

```
; SQ Sequence 10 BP; 3 A; 1 C; 3 G; 3 T; 0 other;
; ABQ71603 Length: 10 October 2, 2003 14:57 Type: N Check: 3978 ..
abq71603
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 30;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3314 AGGGATTCAG 3323
| | | | | | | |
Db 1 ATGGATTCAG 10

RESULT 58
aaa80926/c
; TOIG of: aaa80926 check: 2610 from: 1 to: 8
; ID AAA80926 standard; DNA; 8 BP.
; XX AAA80926;
; AC AAA80926;
; XX 24-NOV-2000 (first entry)
; DT 24-NOV-2000 (first entry)
; XX A. thaliana primer walking octamer SEQ ID NO: 239.
; DE A. thaliana primer walking octamer SEQ ID NO: 239.
; XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
; KW Arabidopsis thaliana.
; XX Arabidopsis thaliana.
; OS Arabidopsis thaliana.
; XX US6083695-A.
; PN US6083695-A.
; XX 04-JUL-2000.
; PD 04-JUL-2000.
; XX 21-MAY-1997; 97US-0859954.
; PF 21-MAY-1997; 97US-0859954.
; XX 15-APR-1996; 96US-0632782.
; PR 15-APR-1996; 96US-0632782.
; XX (UYHO-) UNIV HOUSTON.
; PA (HARD/) HARDIN S H.
; XX Hardin PE, Hardin SH, Homayouni R;
; PI Hardin PE, Hardin SH, Homayouni R;
; XX WPI; 2000-474852/41.
; DR WPI; 2000-474852/41.
; XX Sequencing an unknown DNA molecule for the polymerase chain reaction
; PT and other primer processes comprises primer walking of octamer
; PT oligonucleotides
; XX Example 8; Column 145-146; 161pp; English.
; PS This invention describes a novel method for sequencing an unknown DNA
; CC molecule which comprises selecting a library primer from an octamer
; CC oligonucleotide library consisting of 48 8-bp sequences and
; CC corresponding complementary sequences, where the library primer is
; CC complementary to a known sequence adjacent to the unknown sequence or
; CC is complementary to a sequence in a known extension product. The method
; CC is useful for DNA nucleotide sequencing, in PCR, and in other processes
; CC which make use of primers. The octamers are used to identify coding
; CC sequences. Primer walking using the octamer libraries is advantageous
; CC over other sequencing methods because it does not require multiple
; CC cloning steps nor subsequent template preparations, and it is a
; CC directed and methodical approach. AAA80688-AB1253 represent the octamer
; CC primers used in the primer walking method of the invention.
; XX Sequence 8 BP; 2 A; 3 C; 1 G; 2 T; 0 other;
; SQ Sequence 8 BP; 2 A; 3 C; 1 G; 2 T; 0 other;
; AAA80926 Length: 8 October 2, 2003 14:57 Type: N Check: 2610 ..
aaa80926
Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 3314 AGGATTC 3321
 |||||
 Db 8 AGGATTC 1

RESULT 59

aad45882 TOIG of: aad45882 check: 3937 from: 1 to: 10

; ID AAD45882 standard; DNA; 10 BP.
 ; AC AAD45882;
 ; XX 27-DEC-2002 (first entry)
 ; DE Human TNF alpha gene polymorphism detecting primer #2.
 ; KW Human; tumour necrosis factor; TNF alpha; cancer; inflammatory disorder;
 ; KW diabetes; gene therapy; cytostatic; primer; ss.
 ; XX Homo sapiens.
 ; PN WO200260918-A2.
 ; PD 08-AUG-2002.
 ; XX 03-DEC-2001; 2001WO-US45947.
 ; PF 01-DEC-2000; 2000US-250918P.
 ; PR (GENA-) GENAISSANCE PHARM INC.
 ; PA Bentivegna SC, Denton RR, Nandabalan K, Sausker EA;
 ; PI WPI; 2002-698545/75.
 ; XX New genetic variants comprising human Tumor Necrosis Factor alpha (TNF)
 ; PT isogene, useful for studying the expression and function of TNF and in
 ; PT screening for drugs to treat cancer, diabetes or inflammatory disorders

; PS Claim 17; Page 13; 66pp; English.
 ; XX The present invention relates to novel genetic variants of human tumour
 ; CC necrosis factor (TNF) alpha genes. The polymorphic variants are useful
 ; CC in studying the expression and function of TNF, in expressing TNF protein
 ; CC for use in screening for candidate drugs to treat diseases related to TNF
 ; CC activity. The pharmaceutical compositions comprising TNF polynucleotide,
 ; CC an antisense oligonucleotide directed against one of the novel TNF
 ; CC isogenes, a polynucleotide encoding the antisense oligonucleotide or
 ; CC another compound that inhibits expression of the TNF isogene are useful
 ; CC for treating disorders affected by expression or function of the TNF
 ; CC isogene e.g. cancer, diabetes or inflammatory disorders. Sequences of
 ; CC the invention are also used in gene therapy. The present DNA sequence
 ; CC is a primer used to detect human TNF alpha gene polymorphisms.
 ; XX Sequence 10 BP; 1 A; 1 C; 5 G; 3 T; 0 other;
 ; SQ

; AAD45882 Length: 10 October 2, 2003 14:58 Type: N Check: 3937 ..
 aad45882
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3319 TTCAGGGG 3326
 |||||
 Db 2 TTCAGGGG 9

RESULT 60

aaf35691

; TOIG of: aaf35691 check: 3887 from: 1 to: 10
 ; ID AAF35691 standard; DNA; 10 BP.
 ; AC AAF35691;
 ; XX 23-MAR-2001 (first entry)
 ; DT Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2430.
 ; DE Yeast;
 ; XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 ; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 ; KW serial analysis of gene expression; antifungal; tag; identification;
 ; KW linker; PCR primer; ds.
 ; XX OS
 ; OS Saccharomyces cerevisiae.
 ; XX WO200077214-A2.
 ; PN 21-DEC-2000.
 ; PD 14-JUN-2000; 2000WO-US16223.
 ; PF 16-JUN-1999; 990S-0335032.
 ; PR (UYJO) UNIV JOHNS HOPKINS.
 ; PA Velculescu V, Vogelstein B, Kinzler K;
 ; PI WPI; 2001-061874/07.
 ; XX Yeast gene coding sequences comprising NORF genes with serial analysis
 ; PT of gene expression (SAGE) tags, useful for studying, monitoring and
 ; PT affecting phases of the cell cycle
 ; XX Example; Page 86; 419pp; English.
 ; XX The present invention describes an isolated DNA molecule comprising a
 ; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 ; CC previously assigned open reading frame; or nonannotated ORF) genes
 ; CC comprising a SAGE (serial analysis of gene expression) tag. Also
 ; CC described are: (1) a method (M1) of using NORF genes to affect the cell
 ; CC cycle comprising administering a NORF gene whose expression varies by at
 ; CC least 10% between any two phases of the cell cycle selected from log
 ; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 ; CC antifungal drugs comprising: (a) contacting a test substance with a
 ; CC yeast cell; and (b) monitoring expression of a NORF gene whose
 ; CC expression varies as in M1, where a test substance which modifies the
 ; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
 ; CC (M3) for identifying human genes which are involved in cell cycle
 ; CC progression comprising contacting human DNA with a probe which comprises
 ; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
 ; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
 ; CC member of a class of drugs having a characteristic effect on gene
 ; CC expression in a yeast cell comprising contacting a yeast cell with a
 ; CC candidate drug and monitoring expression in the yeast cell of at least 1
 ; CC NORF gene whose expression is affected by the class of drugs. The NORF
 ; CC genes may be used to study, monitor and affect phases of the cell cycle,
 ; CC the differentially expressed genes may be used as markers of phases of
 ; CC the cell cycle. The methods may be used to identify candidate drugs which
 ; CC affect the cell cycle and for identification of antifungal drugs.
 ; CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
 ; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
 ; CC primers used in the SAGE method, in the exemplification of the present
 ; CC invention.
 ; XX Sequence 10 BP; 2 A; 2 C; 3 G; 3 T; 0 other;
 ; SQ
 ; AAF35691 Length: 10 October 2, 2003 14:58 Type: N Check: 3887 ..
 aaf35691
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3324 GGGTCCA 3331
Db 2 GGGTCCA 9

RESULT 61
aaf36466/c
; TOIG of: aaf36466 check: 3858 from: 1 to: 10

; ID AAF36466 standard; DNA; 10 BP.
; XX AAF36466;
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3205.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX

; OS Saccharomyces cerevisiae.

; PN W0200077214-A2.

; XX 21-DEC-2000.

; XX 14-JUN-2000; 2000WO-US16223.

; XX 16-JUN-1999; 99US-0335032.

; XX (YJJO) UNIV JOHNS HOPKINS.

; PA Velculescu V, Vogelstein B, Kinzler K;
; XX WPI; 2001-061874/07.

; XX

; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -

; XX Example; Page 114; 419pp; English.

; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present

; CC invention.

; XX Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 other;

; ; AAF36466 Length: 10 October 2, 2003 14:58 Type: N Check: 3858
aaf36466

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3325 GGTCCAG 3332

Db 8 GGTCCAG 1

RESULT 62

aaf40055/c

; TOIG of: aaf40055 check: 3949 from: 1 to: 10

; ID AAF40055 standard; DNA; 10 BP.

; XX AAF40055;
; XX
; XX 23-MAR-2001 (first entry)

; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6794.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX

; OS Saccharomyces cerevisiae.

; PN W0200077214-A2.

; XX 21-DEC-2000.

; XX 14-JUN-2000; 2000WO-US16223.

; XX 16-JUN-1999; 99US-0335032.

; XX (YJJO) UNIV JOHNS HOPKINS.

; PA Velculescu V, Vogelstein B, Kinzler K;
; XX WPI; 2001-061874/07.

; XX

; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -

; XX Example; Page 242; 419pp; English.

; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a

CC candidate drug and monitoring expression in the yeast cell of at least 1
 CC NORF gene whose expression is affected by the class of drugs. The NORF
 CC genes may be used to study, monitor and affect phases of the cell cycle,
 CC the differentially expressed genes may be used as markers of phases of
 CC the cell cycle. The methods may be used to identify candidate drugs which
 CC affect the cell cycle and for identification of antifungal drugs.
 CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
 CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
 CC primers used in the SAGE method, in the exemplification of the present
 CC invention.
 CC XX
 CC SQ Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 other;

AAAF0055 Length: 10 October 2, 2003 14:58 Type: N Check: 3949 ..
 aaf40055

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3317 GATTCAGG 3324
 |||||
 Db 10 GATTCAGG 3

RESULT 63
 aaf42054
 TOIG of: aaf42054 check: 4016 from: 1 to: 10
 ID AAF42054 standard; DNA; 10 BP.
 XX
 AC AAF42054;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8793.
 XX
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US16223.
 XX
 PR 16-JUN-1999; 99US-0335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX

Yeast gene coding sequences comprising NORF genes with serial analysis
 of gene expression (SAGE) tags, useful for studying, monitoring and
 affecting phases of the cell cycle -
 XX
 XX Example; Page 314; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a

CC yeast cell; and (b) monitoring expression of a NORF gene whose
 CC expression varies as in M1, where a test substance which modifies the
 CC expression of the yeast gene is a candidate antifungal drug; (3) a method
 CC (M3) for identifying human genes which are involved in cell cycle
 CC progression comprising contacting human DNA with a probe which comprises
 CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
 CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
 CC member of a class of drugs having a characteristic effect on gene
 CC expression in a yeast cell comprising contacting a yeast cell with a
 CC candidate drug and monitoring expression in the yeast cell of at least 1
 CC NORF gene whose expression is affected by the class of drugs. The NORF
 CC genes may be used to study, monitor and affect phases of the cell cycle,
 CC the differentially expressed genes may be used as markers of phases of
 CC the cell cycle. The methods may be used to identify candidate drugs which
 CC affect the cell cycle and for identification of antifungal drugs.
 CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
 CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
 CC primers used in the SAGE method, in the exemplification of the present
 CC invention.
 CC XX
 CC SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 other;

AAAF2054 Length: 10 October 2, 2003 14:58 Type: N Check: 4016 ..
 aaf42054

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3314 AGGATTC 3321
 |||||
 Db 2 AGGATTC 9

RESULT 64
 aaf42057
 TOIG of: aaf42057 check: 4052 from: 1 to: 10
 ID AAF42057 standard; DNA; 10 BP.
 XX
 AC AAF42057;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8796.
 XX
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US16223.
 XX
 PR 16-JUN-1999; 99US-0335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX

Yeast gene coding sequences comprising NORF genes with serial analysis
 of gene expression (SAGE) tags, useful for studying, monitoring and
 affecting phases of the cell cycle -
 XX
 XX Example; Page 314; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a

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; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 1 A; 1 C; 6 G; 2 T; 0 other;
;
; AAF42057 Length: 10 October 2, 2003 14:58 Type: N Check: 4052 ..
aaf42057

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Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 3322 AGGGGTTTC 3329
Db 2 AGGGGTTTC 9

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RESULT 65
aaf42631
; TOIG of: aaf42631 check: 4071 from: 1 to: 10
;
; ID AAF42631 standard; DNA; 10 BP.
; AC AAF42631;
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:10770.
; DE
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN WO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000WO-US16223.
; XX
; PR 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; XX Velculescu V, Vogelstein B, Kinzler K;
; PI

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; XX WPI; 2001-061874/07.
; DR
; XX

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; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle --
; XX

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; PS Example; Page 334; 419pp; English.
; XX

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; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 2 A; 1 C; 3 G; 4 T; 0 other;
;
; AAF42631 Length: 10 October 2, 2003 14:58 Type: N Check: 4071 ..
aaf42631

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Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 3318 ATTCAGGG 3325
Db 2 ATTCAGGG 9

```

```

RESULT 66
aaf42841/c
; TOIG of: aaf42841 check: 4104 from: 1 to: 10
;
; ID AAF42841 standard; DNA; 10 BP.
; AC AAF42841;
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:10980.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN WO200077214-A2.
; XX

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```
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000WO-US16223.
; XX
; PR 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; PI Velculescu V, Vogelstein B, Kinzler K;
; XX WPI; 2001-061874/07.
; DR
; XX
; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -
; PS
; PS Example; Page 342; 419pp; English.
; CC
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF4064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 other;
;
; AAF42841 Length: 10 October 2, 2003 14:58 Type: N Check: 4104 ..
aaf42841
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3318 ATTCAGGG 3325
Db 9 ATTCAGGG 2
|||||
RESULTS
aah63748 check: 3877 from: 1 to: 10
; TOIG of: aah63748 check: 3877 from: 1 to: 10
; ID AAH63748 standard; cDNA; 10 BP.
; AC AAH63748;
; XX
; DT 20-SEP-2001 (first entry)
; XX
; DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 588.
; XX
```

```
; KW Human; transcriptome; gene expression pattern; cancer; drug screening;
; KW cancer diagnosis; cell specific gene expression; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200138577-A2.
; XX
; PD 31-MAY-2001.
; XX
; PF 21-NOV-2000; 2000WO-US31922.
; XX
; PR 24-NOV-1999; 99US-0448480.
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; PI Velculescu VE, Vogelstein B, Kinzler KW;
; XX WPI; 2001-367706/38.
; DR
; XX
; PT New isolated polynucleotides, useful for identifying specific cell
; PT type, such as cancer cell, comprises transcriptomes expressed in
; PT particular cell types -
; XX
; PS Claim 13; Page 52; 94pp; English.
; CC
; CC The present invention describes a method of identifying the type of cell
; CC in a sample, involving determining which of the sequences
; CC AAH63161-AAH64724 is expressed by the cell. The transcriptomes described
; CC in the invention are cell-type specific, cancer specific or ubiquitously
; CC expressed in humans. They can also be used to screen for drugs, reduce
; CC cancer specific gene expression, standardise expression and restore the
; CC function of a diseased cell or tissue. The present sequence is one of
; CC the transcriptomes described in the exemplification of the invention.
; XX
; SQ Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 other;
;
; AAH63748 Length: 10 October 2, 2003 14:58 Type: N Check: 3877 ..
aah63748
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3319 TTCAGGGG 3326
Db 2 TTCAGGGG 9
|||||
RESULTS
aah63560 check: 4214 from: 1 to: 10
; TOIG of: aah63560 check: 4214 from: 1 to: 10
; ID AAQ63560 standard; DNA; 10 BP.
; AC AAQ63560;
; XX
; DT 25-MAR-2003 (updated)
; DT 21-DEC-1994 (first entry)
; XX
; DE C8 3' spacer element.
; XX
; KW Insertion element; junk DNA; spacer element; functional DNA sequence;
; KW primer binding site; reaction product; binding specificity; primer;
; KW recombinant molecule; structural stress; hybridisation assay; ss.
; XX
; OS Synthetic.
; XX
; PN WO9409159-A2.
; XX
; DT 28-APR-1994.
; PD
; XX
; PF 08-OCT-1993; 93WO-US09702.
; XX
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; PR 09-OCT-1992; 92US-0959939.
; PR 09-APR-1993; 93US-0045587.
; XX
; PA (STAD ) AMOCO CORP.
; XX
; PI Burg J;
; XX
; XX WPI; 1994-151343/18.
; DR
; XX
; XX Insertion elements and amplifiable nucleic acids - for use as
; PT probes in hybridisation assays and for the prepn. of libraries
; PT used to identify preferred insertion elements.
; XX
; PS Disclosure; Page 23; 39pp; English.
; XX
; CC The sequences given in AAQ63549-60 are spacer elements used within the
; CC insertion elements of the invention. These insertion elements contain
; CC junk DNA, two spacer elements, a functional DNA sequence and a
; CC primer binding site. They also contain an MluI site, an MluI/NheI
; CC site and a NheI site. The junk DNA serves to keep the MluI site
; CC from being at the extreme end of the molecule and also allows
; CC determination that the MluI cleavage has occurred because the extended
; CC DNA will be reduced in size by the length of the junk sequence and
; CC the junk sequence will appear as a reaction product. The
; CC nucleotides making up the spacer elements are chosen randomly and
; CC the functional nucleotide sequence is chosen to achieve the binding
; CC specificity required of the amplifiable nucleic acid. The primer
; CC binding site can be any nucleotide sequence for which a complementary
; CC primer is available or can be synthesised. However, the primer and
; CC primer binding site are chosen such that the primer itself does not
; CC bind to any other portion of the insertion element under construction.
; CC Insertion sequences such as these can be used to insert a functional
; CC molecule into a host molecule to form a recombinant molecule. The
; CC spacer elements are thought to relieve structural stresses imposed on
; CC the host by addition of the functional nucleotide sequence. The
; CC insertion elements can be used with nucleic acid hybridisation assays.
; CC (Updated on 25-MAR-2003 to correct PN field.)
; XX
; SQ Sequence 10 BP; 1 A; 1 C; 5 G; 3 T; 0 other;
;
; AAQ63560 Length: 10 October 2, 2003 14:58 Type: N Check: 4214 ..
aaq63560
Query Match 40.08; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3321 CAGGGGTT 3328
Db 1 CAGGGGTT 8
|||||||

RESULT 69
aaaz78096/c
; TOIG of: aaaz78096 check: 3984 from: 1 to: 10
;
; ID AAZ78096 standard; DNA; 10 BP.
; XX
; AC AAZ78096;
; XX
; DT 10-APR-2000 (first entry)
; XX
; DE Human dendritic cell SAGE tag, SEQ ID NO:524.
; XX
; KW SAGE tag; serial analysis of gene expression; antigen-presenting cell;
; KW APC; monocyte-derived dendritic cell; differential gene expression;
; KW immunostimulatory cofactor; costimulatory factor; cTL;
; KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO9965924-A2.
; XX

```

```

; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13800.
; XX
; XX 19-JUN-1998; 98US-0089833.
; PR 19-JUN-1998; 98US-0089844.
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089878.
; PR 19-JUN-1998; 98US-0089991.
; PR 19-JUN-1998; 98US-0089992.
; PR 19-JUN-1998; 98US-0089993.
; PR 19-JUN-1998; 98US-0089994.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0089999.
; PR 19-JUN-1998; 98US-0090000.
; PR 19-JUN-1998; 98US-0090035.
; PR 19-JUN-1998; 98US-0090036.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; PR 19-JUN-1998; 98US-0090042.
; PR 19-JUN-1998; 98US-0090043.
; PR 19-JUN-1998; 98US-0090044.
; PR 19-JUN-1998; 98US-0090045.
; PR 19-JUN-1998; 98US-0090047.
; PR 19-JUN-1998; 98US-0090048.
; PR 19-JUN-1998; 98US-0090072.
; PR 19-JUN-1998; 98US-0090076.
; PR 19-JUN-1998; 98US-0090077.
; PR 19-JUN-1998; 98US-0090078.
; PR 19-JUN-1998; 98US-0090079.
; PR 19-JUN-1998; 98US-0090080.
; PR 08-DEC-1998; 98US-0111715.
; XX
(GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX WPI; 2000-106077/09.
; DR
; XX Isolated polynucleotides differentially expressed in antigen-presenting
; PT cells, useful in gene vaccines against cancer -
; XX
; PS Claim 1; Page 80; 130pp; English.
; XX
; CC Sequences AAZ77573-279709 represent SAGE (serial analysis of gene
; CC expression) tags used to identify mRNA transcripts encoding
; CC immunostimulatory cofactor proteins which are preferentially or
; CC differentially expressed in monocyte-derived dendritic cells compared
; CC with monocytes. Some of the transcripts correspond to known genes or
; CC ESTs (expressed sequence tags) which were previously unknown to be
; CC preferentially or differentially expressed in dendritic cells, while
; CC other transcripts correspond to novel genes. Antigen-presenting cell
; CC (APC)-associated costimulatory factors play an important role in the
; CC activation of the cytotoxic immune response, particularly against tumour
; CC cells. Tumour antigen presentation via the MHC (major histocompatibility
; CC complex) and subsequent recognition by T-cell receptors is alone
; CC insufficient to activate a robust cytotoxic immune response that can
; CC lyse the tumour cells, immunostimulatory cofactors also being required
; CC for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
; CC sequences identified using the SAGE tags have several potential uses.
; CC They may be used in vaccines to induce an immune response, particularly
; CC against a tumour antigen; to modulate the genotype of an APC; to screen
; CC for agents that modulate expression of differentially expressed genes in
; CC an APC; and as hybridisation probes/amplification primers for the
; CC diagnosis, prognosis and monitoring of diseases related to abnormal
; CC expression of these genes. Detection of the dendritic cell
; CC differentially expressed genes, or of their encoded proteins, can be used
; CC to identify cells as belonging to the monocyte lineage. Cells containing
; CC these genes can be used in active immunotherapy (or to stimulate
; CC production of a population of antigen-specific effector cells) and

```

; CC vectors containing them are used in gene therapy. Co-administration of
; CC tumour antigens and APC-associated costimulatory factors ensures adequate
; CC antigen presentation to endogenous APCs and upregulates the APCs for the
; CC presentation of co-stimulatory signals, migration to T cell-rich sites,
; CC secretion of T cell growth factors and secretion of chemokines for
; CC recruitment of immune effector cells.
; XX
; SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 other;

; AAZ78096 Length: 10 October 2, 2003 14:58 Type: N Check: 3984 ..
aaz78096

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3320 TCAGGGGT 3327

Db 9 TCAGGGGT 2
|||||||

RESULT 70

aaz78337

; TOIG of: aaz78337 check: 3934 from: 1 to: 10

; ID AAZ78337 standard; DNA; 10 BP.

; XX .

; AC AAZ78337;

; XX

; DT 10-APR-2000 (first entry)

; XX

; DE Human dendritic cell SAGE tag, SEQ ID NO:765.

; XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
; KW APC; monocyte-derived dendritic cell; differential gene expression;
; KW immunostimulatory cofactor; costimulatory factor; CTL;
; KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.

; XX Homo sapiens.

; XX WO9965924-A2.

; XX 23-DEC-1999.

; XX 18-JUN-1999; 99WO-US13800.

; XX 19-JUN-1998; 98US-0089833.

; XX 19-JUN-1998; 98US-0089844.

; XX 19-JUN-1998; 98US-0089853.

; XX 19-JUN-1998; 98US-0089878.

; XX 19-JUN-1998; 98US-0089921.

; XX 19-JUN-1998; 98US-0089992.

; XX 19-JUN-1998; 98US-0089993.

; XX 19-JUN-1998; 98US-0089994.

; XX 19-JUN-1998; 98US-0089997.

; XX 19-JUN-1998; 98US-0089999.

; XX 19-JUN-1998; 98US-0090000.

; XX 19-JUN-1998; 98US-0090003.

; XX 19-JUN-1998; 98US-0090036.

; XX 19-JUN-1998; 98US-0090039.

; XX 19-JUN-1998; 98US-0090040.

; XX 19-JUN-1998; 98US-0090041.

; XX 19-JUN-1998; 98US-0090042.

; PR

; PR

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; PA

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DE Human dendritic cell SAGE tag, SEQ ID NO:1337.
XX
KW SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
PN WO9965924-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US13800.
XX
PR 19-JUN-1998; 98US-0089833.
PR 19-JUN-1998; 98US-0089844.
PR 19-JUN-1998; 98US-0089853.
PR 19-JUN-1998; 98US-0089878.
PR 19-JUN-1998; 98US-0089991.
PR 19-JUN-1998; 98US-0089992.
PR 19-JUN-1998; 98US-0089993.
PR 19-JUN-1998; 98US-0089994.
PR 19-JUN-1998; 98US-0089997.
PR 19-JUN-1998; 98US-0089999.
PR 19-JUN-1998; 98US-0090000.
PR 19-JUN-1998; 98US-0090035.
PR 19-JUN-1998; 98US-0090036.
PR 19-JUN-1998; 98US-0090039.
PR 19-JUN-1998; 98US-0090040.
PR 19-JUN-1998; 98US-0090041.
PR 19-JUN-1998; 98US-0090042.
PR 19-JUN-1998; 98US-0090043.
PR 19-JUN-1998; 98US-0090044.
PR 19-JUN-1998; 98US-0090045.
PR 19-JUN-1998; 98US-0090047.
PR 19-JUN-1998; 98US-0090048.
PR 19-JUN-1998; 98US-0090072.
PR 19-JUN-1998; 98US-0090076.
PR 19-JUN-1998; 98US-0090077.
PR 19-JUN-1998; 98US-0090078.
PR 19-JUN-1998; 98US-0090079.
PR 19-JUN-1998; 98US-0090080.
PR 08-DEC-1998; 98US-0111715.
XX
PA (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106077/09.
XX
PT Isolated polynucleotides differentially expressed in antigen-presenting
cells, useful in gene vaccines against cancer -
XX
PS Claim 1; Page 103; 130pp; English.
XX
Sequence AA277573-Z79709 represent SAGE (serial analysis of gene
expression) tags used to identify mRNA transcripts encoding
immunostimulatory cofactor proteins which are preferentially or
differentially expressed in monocyte-derived dendritic cells compared
with monocytes. Some of the transcripts correspond to known genes or
ESTs (expressed sequence tags) which were previously unknown to be
preferentially or differentially expressed in dendritic cells, while
other transcripts correspond to novel genes. Antigen-presenting cell
(APC)-associated costimulatory factors play an important role in the
activation of the cytotoxic immune response, particularly against tumour
cells. Tumour antigen presentation via the MHC (major histocompatibility
complex) and subsequent recognition by T-cell receptors is alone
insufficient to activate a robust cytotoxic immune response that can
lyse the tumour cells, immunostimulatory cofactors also being required
for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid

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CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell
CC differentially expressed genes, or of their encoded proteins, can be used
CC to identify cells as belonging to the monocyte lineage. Cells containing
CC these genes can be used in active immunotherapy (or to stimulate
CC production of a population of antigen-specific effector cells) and
CC vectors containing them are used in gene therapy. Co-administration of
CC tumour antigens and APC-associated costimulatory factors ensures adequate
CC antigen presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC recruitment of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells.
XX
SQ Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 other;
XX
AAZ78909 Length: 10 October 2, 2003 14:58 Type: N Check: 3877 ..
aaz78909
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3319 TTCAGGGG 3326
Db 2 TTCAGGGG 9
|||||||
RESULT 72
aaz81683/c
; TOIG of: aaz81683 check: 3813 from: 1 to: 10
; ID AAZ81683 standard; DNA; 10 BP.
; XX
; AC AAZ81683;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell upregulated transcript tag #917.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic
and non-metastatic breast cancer cells, useful for diagnosis,
prevention and treatment of cancer -

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; XX
; PS Claim 1; Page 83; 219pp; English.
; CC
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines: for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 3 A; 4 C; 2 G; 1 T; 0 other;
; AAZ81683 Length: 10 October 2, 2003 14:58 Type: N Check: 3813 ..
AAZ81683
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3320 TCAGGGGT 3327
Db 8 TCAGGGGT 1
|||||||

RESULT 73
AAZ82371/c
; TOIG of: aaz82371 check: 3984 from: 1 to: 10
; ID AAZ82371 standard; DNA; 10 BP.
; XX
; AC AAZ82371;
; XX
; DT 07-APR-2000 (first entry)
; DE Metastatic breast tumour cell upregulated transcript tag #1605.
; XX
; XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; XX antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; XX WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; XX 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX

```

```

; PI Roberts BL, Shankara S;
; XX
; PS WPI; 2000-106079/09.
; CC
; CC Isolated polynucleotides differentially expressed between metastatic
; CC and non-metastatic breast cancer cells, useful for diagnosis,
; CC prevention and treatment of cancer -
; XX
; PS Claim 1; Page 101; 219pp; English.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines: for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 other;
; AAZ82371 Length: 10 October 2, 2003 14:58 Type: N Check: 3984 ..
AAZ82371
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3320 TCAGGGGT 3327
Db 9 TCAGGGGT 2
|||||||

RESULT 74
AAZ83968/c
; TOIG of: aaz83968 check: 3832 from: 1 to: 10
; ID AAZ83968 standard; DNA; 10 BP.
; XX
; AC AAZ83968;
; XX
; DT 07-APR-2000 (first entry)
; DE Metastatic breast tumour cell downregulated transcript tag #3202.
; XX
; XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; XX antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; XX WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; XX 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090039.

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; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; PI WPI; 2000-106079/09.
; DR
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 other;
;
; AAZ83968 Length: 10 October 2, 2003 14:58 Type: N Check: 3832 ..
aaz83968

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3315 GGGATTCA 3322
Db 11111111
9 GGGATTCA 2

RESULT 75
aaz84127
; TOIG of: aaz84127 check: 3934 from: 1 to: 10
; ID AAZ84127 standard; DNA; 10 BP.
; AC AAZ84127;
; XX
; DT 07-APR-2000 (first entry)
; DE Metastatic breast tumour cell downregulated transcript tag #3361.
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX Homo sapiens.
; OS
; XX WO9965928-A2.
; PN
; XX

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; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; PI WPI; 2000-106079/09.
; DR
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 other;
;
; AAZ84127 Length: 10 October 2, 2003 14:58 Type: N Check: 3934 ..
aaz84127

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3324 GGGTTCCA 3331
Db 11111111
3 GGGTTCCA 10

RESULT 76
aaz84157
; TOIG of: aaz84157 check: 3812 from: 1 to: 10
; ID AAZ84157 standard; DNA; 10 BP.
; XX
; AC AAZ84157;
; XX
; DT 07-APR-2000 (first entry)
; DE Metastatic breast tumour cell downregulated transcript tag #3391.
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW

```

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; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX Homo sapiens.
; XX OS
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 other;
;
; AAZ84157 Length: 10 October 2, 2003 14:58 Type: N Check: 3812 ..
aaz84157

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3326 GTTCCAGC 3333
Db 1 GTTCCAGC 8
|||||||

RESULT 77
aaz84158/c
; TOIG of: aaz84158 check: 3703 from: 1 to: 10
; ID AAZ84158 standard; DNA; 10 BP.
; XX

```

```

; AC AAZ84158;
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #3392.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO9965928-A2.
; XX
; PD 23-DEC-1999.
; XX
; PF 18-JUN-1999; 99WO-US13647.
; XX
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; DR WPI; 2000-106079/09.
; XX
; CC Isolated polynucleotides differentially expressed between metastatic
; CC and non-metastatic breast cancer cells, useful for diagnosis,
; CC prevention and treatment of cancer -
; CC Claim 1; Page 149; 219pp; English.
; XX
; AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 4 A; 3 C; 2 G; 1 T; 0 other;
;
; AAZ84158 Length: 10 October 2, 2003 14:58 Type: N Check: 3703 ..
aaz84158

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3324 GGGTTCCA 3331
Db 9 GGGTTCCA 2
|||||||

```

```
RESULT 78
aaz84257/c
; TOIG of: aaz84257 check: 4042 from: 1 to: 10
; ID AAZ84257 standard; DNA; 10 BP.
; AC AAZ84257;
; XX
; XX
; XX
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #3491.
; XX
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; XX
; OS Homo sapiens.
; XX
; XX
; PN WC9965928-A2.
; PD
; PD
; PD
; PF
; PF
; XX
; XX
; PR 18-JUN-1999; 99WO-US13647.
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; XX
; DR WPI; 2000-106079/09.
; XX
; XX
; PT Isolated polynucleotides differentially expressed between metastatic
; PT and non-metastatic breast cancer cells, useful for diagnosis,
; PT prevention and treatment of cancer -
; XX
; PS Claim 1; Page 152; 219pp; English.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
; SQ Sequence 10 BP; 2 A; 3 C; 2 G; 3 T; 0 other;
;
; AAZ84257 Length: 10 October 2, 2003 14:58 Type: N Check: 4042 ..
aaz84257
```

Query Match

40.0%; Score 8; DB 1; Length 10;

```
Best Local Similarity 100.0%; Pred. No. 35;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3317 GATTCAGG 3324
Db 8 GATTCAGG 1

RESULT 79
aaz84401/c
; TOIG of: aaz84401 check: 3887 from: 1 to: 10
; ID AAZ84401 standard; DNA; 10 BP.
; XX
; AC AAZ84401;
; XX
; XX
; DT 07-APR-2000 (first entry)
; XX
; DE Metastatic breast tumour cell downregulated transcript tag #3635.
; XX
; KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
; KW non-metastatic breast tumour tissue; gene therapy; anticancer;
; KW antimetastatic; vaccine; diagnosis; ss.
; XX
; XX
; OS Homo sapiens.
; XX
; XX
; PN WC9965928-A2.
; XX
; PD
; PD
; PD
; PF
; PF
; XX
; XX
; PR 18-JUN-1999; 99WO-US13647.
; PR 19-JUN-1998; 98US-0089853.
; PR 19-JUN-1998; 98US-0089997.
; PR 19-JUN-1998; 98US-0090039.
; PR 19-JUN-1998; 98US-0090040.
; PR 19-JUN-1998; 98US-0090041.
; XX
; XX
; PA (GENZ ) GENZYME CORP.
; PA (ROBE/) ROBERTS B L.
; PA (SHAN/) SHANKARA S.
; XX
; PI Roberts BL, Shankara S;
; XX
; XX
; DR WPI; 2000-106079/09.
; XX
; XX
; PT Isolated polynucleotides differentially expressed between metastatic
; PT and non-metastatic breast cancer cells, useful for diagnosis,
; PT prevention and treatment of cancer -
; XX
; PS Claim 1; Page 156; 219pp; English.
; XX
; CC AAZ80767 to AAZ83941 represent tags corresponding to distinct
; CC transcripts that are preferentially transcribed in the metastatic breast
; CC tumour tissue (i.e. are upregulated in metastatic breast tumour cells).
; CC AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts
; CC that are preferentially transcribed in the primary or non-metastatic
; CC breast tumour tissue (i.e. are downregulated in metastatic breast tumour
; CC cells). These transcripts can be used for diagnosis, prognosis,
; CC monitoring and treatment of breast cancer, particularly where metastatic.
; CC Diagnosis is by standard immunoassays or hybridisation/amplification
; CC reactions. Compounds that modulate expression of the transcripts are
; CC potentially useful for treatment of (metastatic) breast cancer, while
; CC promoters from the transcripts are used to direct expression, in selected
; CC cell types, of e.g. therapeutic genes (also ribozymes or antisense
; CC sequences), particularly an antigen-encoding sequence for use in gene or
; CC cell-based vaccines. Polypeptides encoded by the transcripts are also
; CC useful in vaccines; for diagnosing breast cancer and for raising
; CC specific antibodies (Ab). Ab are used to detect the polypeptides or as
; CC therapeutic agents. Host cells that produce the polypeptides can be used
; CC to expand and isolate populations of educated, antigen-specific immune
; CC effector cells, e.g. cytotoxic T lymphocytes, and these used for
; CC adoptive immunotherapy.
; XX
```


XX ;

; XX Isolated polynucleotide comprising a related RAS viral (r-ras) oncogene
; PT homologue (RRAS) isogene (comprising defined polymorphism) useful for
; PT providing haplotype information and drug screening -

Claim 18; Page 12; 60pp; English.

; PS The present invention relates to genetic variants of the human related RAS
 ; CC viral oncogene RRAS. Ras proteins are a member of a superfamily of small
 ; CC GTPases that are involved in the regulation of cell growth. The
 ; CC invention also comprises a related RAS viral (r-ras) oncogene homologue
 ; CC (RRAS) isogene comprising one or more of the polymorphisms shown.
 ; CC The sequences of the invention may be used to study the function of
 ; CC RRAS or to treat disorders such as cancer using antisense therapy.
 ; CC The polymorphic sequence of the invention is useful for providing
 ; CC haplotype information of an individual. Furthermore, the polymorphic
 ; CC sequence is useful for studying the biological function of RRAS as well
 ; CC as identifying drugs targeting the protein for the treatment of
 ; CC disorders related to its abnormal expression or function. In particular
 ; CC for validating whether RRAS is a suitable target for drugs to treat
 ; CC cancer, screening for such drugs and reducing bias in clinical trials.
 ; CC The present sequence represents an allele specific oligonucleotide
 ; CC primer #15 used to detect the human related RAS viral oncogene (RRAS)
 ; CC polymorphisms of the invention using the primer extension technique.
 ; XX
 ; SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 other;
 ; ABK14251 Length: 10 October 2, 2003 14:58 Type: N Check: 4104 ..
 abk14251

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3321 CAGGGGTT 3328

DB
 |||||
 3 CAGGGGTT 10

RESULT 84

abk23538
 ; TOIG of: abk23538 check: 3877 from: 1 to: 10
 ; ID ABK23538 standard; DNA; 10 BP.

; XX
 ; AC ABK23538;
 ; XX
 ; DT 09-APR-2002 (first entry)
 ; XX
 ; DE Transcript tag DNA sequence #127 induced or suppressed by N-myc.
 ; XX
 ; KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
 ; KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
 ; KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.

OS Homo sapiens.

PN WO200185941-A2.

XX PD 15-NOV-2001.

XX PF 11-MAY-2001; 2001WO-NL00361.

XX PR 11-MAY-2000; 2000EP-0201698.

XX PR 29-JUN-2000; 2000EP-0202284.

XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.

XX PI Versteeg R, Caron HN;

XX DR WPI; 2002-066603/09.

; XX A new nucleic acid library of myc-dependent downstream genes capable of
 ; PT supporting a neoplastic characteristic of cancer is useful to find new
 ; PT therapies and diagnoses for cancer -

XX PS Disclosure; Page 52; 69pp; English.

XX

; CC The present invention relates to a nucleic acid library comprising
 ; CC myc-dependent downstream genes or their functional fragments essentially
 ; CC capable of supporting a neoplastic character of cancer such as growth,
 ; CC invasion or spread. These myc target or tag sequences are identified
 ; CC by SAGE (serial analysis of gene expression). The library is useful to
 ; CC find new diagnoses and treatments for cancer. The invention is also
 ; CC useful to enhance production of recombinant proteins in a production
 ; CC system with high expression of endogenous or transfected myc oncogenes.
 ; CC ABK23412-ABK23828 represent transcript tag DNA sequences that are
 ; CC activated or repressed by N-myc in human neuroblastoma.

XX SQ Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 other;

; ABK23538 Length: 10 October 2, 2003 14:58 Type: N Check: 3877 ..
 abk23538

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3319 TTCAGGGG 3326

DB
 |||||
 2 TTCAGGGG 9

RESULT 85

abk23629
 ; TOIG of: abk23629 check: 3877 from: 1 to: 10
 ; ID ABK23629 standard; DNA; 10 BP.

XX AC ABK23629;

XX DT 09-APR-2002 (first entry)

XX DE Transcript tag DNA sequence #218 induced or suppressed by N-myc.

; KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
 ; KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
 ; KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.

OS Homo sapiens.

PN WO200185941-A2.

XX PD 15-NOV-2001.

XX PF 11-MAY-2001; 2001WO-NL00361.

XX PR 11-MAY-2000; 2000EP-0201698.

XX PR 29-JUN-2000; 2000EP-0202284.

XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.

XX PI Versteeg R, Caron HN;

XX DR WPI; 2002-066603/09.

; XX A new nucleic acid library of myc-dependent downstream genes capable of
 ; PT supporting a neoplastic characteristic of cancer is useful to find new
 ; PT therapies and diagnoses for cancer -

XX PS Disclosure; Page 54; 69pp; English.

XX

; CC The present invention relates to a nucleic acid library comprising
 ; CC myc-dependent downstream genes or their functional fragments essentially
 ; CC capable of supporting a neoplastic character of cancer such as growth,
 ; CC invasion or spread. These myc target or tag sequences are identified
 ; CC by SAGE (serial analysis of gene expression). The library is useful to
 ; CC find new diagnoses and treatments for cancer. The invention is also
 ; CC useful to enhance production of recombinant proteins in a production
 ; CC system with high expression of endogenous or transfected myc oncogenes.
 ; CC ABK23412-ABK23828 represent transcript tag DNA sequences that are

CC activated or repressed by N-myc in human neuroblastoma.
 XX Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 other;
 SQ
 ABK23629 Length: 10 October 2, 2003 14:58 Type: N Check: 3877 ..
 abk23629

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3319 TTCAGGGG 3326
 Db 2 TTCAGGGG 9

RESULT 86
 abk92637/c
 TOIG Of: abk92637 check: 3899 from: 1 to: 10
 ID ABK92637 standard; DNA; 10 BP.
 XX
 AC ABK92637;
 XX
 DT 20-AUG-2002 (first entry)
 XX
 DE Primer-extension oligonucleotide #9 to detect human ADORA3 polymorphisms.
 XX
 KW Human; single nucleotide polymorphism; SNP; ADORA3; haplotyping;
 KW chromosome 1p21-pl3; adenosine A3 receptor; genotyping;
 KW pathophysiological heart condition; myocardial ischaemia;
 KW chronic heart failure; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200236610-A2.
 XX
 PD 10-MAY-2002.
 XX
 PF 31-OCT-2001; 2001WO-US45718.
 XX
 PR 31-OCT-2000; 2000US-244626P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Gilson CR, Kazemi A, Koshy B, Monroe G;
 XX
 DR WPI; 2002-489998/52.
 XX
 PT Novel genetic variants of the adenosine A3 receptor, useful
 PT therapeutically and in screening for drugs to treat diseases related to
 PT ADORA3 activity e.g., myocardial ischaemia and chronic heart failure -
 XX
 PS Claim 17; Page 15; 82pp; English.

The present invention relates to novel single nucleotide polymorphisms (SNPs) in the human adenosine A3 receptor (ADORA3) gene located on chromosome 1p21-pl3, and methods for haplotyping and/or genotyping the ADORA3 gene. The methods of the invention make use of allele-specific oligonucleotides (ASOs) as probes and primers and/or primer-extension oligonucleotides for detecting the ADORA3 gene polymorphisms. The polymorphisms and screened compounds are useful for the treatment of diseases associated with ADORA3 activity, such as pathophysiological conditions of the heart e.g. myocardial ischaemia and chronic heart failure. ABK92629-ABK92654 represent primer-extension oligonucleotides for detecting human ADORA3 gene polymorphisms.

Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 other;
 ABK92637 Length: 10 October 2, 2003 14:58 Type: N Check: 3899 ..
 abk92637

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 35;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3318 ATTCAGGG 3325
 Db 8 ATTCAGGG 1

RESULT 87
 abk96539/c
 TOIG Of: abk96539 check: 3838 from: 1 to: 10
 ID ABK96539 standard; DNA; 10 BP.
 XX
 AC ABK96539;
 XX
 DT 24-SEP-2002 (first entry)
 XX
 DE Human PLAU gene, primer extension primer 3' terminus #12.
 XX

Human; ss; primer; Plasminogen activator; urokinase; PLAU; cancer;
 cytostatic; serine protease; thrombolytic disorder; isogene; PCR;
 pulmonary embolism; chromosome 10q24-qter; haplotype; genotype;
 SNP; single nucleotide polymorphism; thrombolytic; gene therapy;
 primer extension.

XX Homo sapiens.
 XX
 PN WO200240503-A2.
 XX
 PD 23-MAY-2002.
 XX
 PF 14-NOV-2001; 2001WO-US44001.
 XX
 PR 17-NOV-2000; 2000US-249703P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Anastasio AE, Bentivegna SC, Koshy B;
 XX
 DR WPI; 2002-519370/55.

Genetic variants of plasminogen activator, Urokinase (PLAU) isogenes, useful for improving efficiency and reliability in drug development for treating thrombolytic disorders and cancer -
 Claim 16; Page 14; 92pp; English.

The invention relates to a polynucleotide comprising a first nucleotide sequence (NS1) comprising a PLAU (plasminogen activator, urokinase, a serine protease) isogene selected from isogenes 1-9 and 11-20 given in the specification, where each isogene comprises the regions of the PLAU gene or cDNA and is further defined by the corresponding sequence of polymorphisms (defining single nucleotide polymorphisms, SNP). Also included are methods of haplotyping/genotyping (and predicting the haplotype/genotype of the PLAU gene of an individual, identifying an association between a trait and at least one haplotype or haplotype pair of the PLAU gene, an isolated oligonucleotide for detecting a polymorphism in the PLAU gene, a recombinant non-human organism transformed or transfected with the gene or cDNA, fragments of the polynucleotides of at least 10 base pairs encompassing a polymorphic site, an isolated polymorphic variant PLAU protein or fragment, an isolated monoclonal antibody specific for PLAU, a computer system for storing and analysing polymorphism data for the PLAU gene and a genome anthology for the PLAU gene. PLAU is useful in screening for drugs targeting PLAU that are useful for treating thrombolytic disorders and cancers. The methods are useful for improving the efficiency and reliability of the discovery and development of drugs for treating diseases associated with PLAU activity, in validating PLAU as a drug target and in the design of clinical trials for treating a specific condition of disease associated with PLAU activity. The antibody is useful in diagnostic, prognostic and therapeutic methods. PLAU polynucleotides are useful in studying the expression and function of

Search completed: October 2, 2003, 15:35:58
Job time : 1 secs
